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RELATING CHIEFLY TO THE YEAR

1934.

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A. K. TOTTON, H. M. MUIR WOOD, AND THE IMPERIAL INSTITUTE OF
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EDITED BY

W. L. SCLATER, M.A., F.Z.S.

Explorate solum : sic fit via certior ultra.

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PREFACE.

THE seventy-first Volume of the Zoological Record will be ready for distribution in November. The various parts have already been issued separately between June and October.

The present volume contains 1,368 pages of Record matter; this is ninety pages more than that of the previous year. The number of new genera shows a very large increase; 2,727 are listed as against 2,087 in the Record for 1933. This is due not so much to the recent activity of workers, but is the result of an intensive search for such genera as had escaped the notice of Recorders in previous years, especially among the Insecta. This was specially undertaken in order to assist to make complete the new universal list of genera now being prepared under the editorship of Dr. A. C. Neave.

There has been no change among the Recorders since last year.

The size of the present volume has been also increased by the inclusion of a new and revised "List of Abbreviations with Titles of Periodicals." The last list which was published in the Record for 1931 has been thoroughly revised in accordance with the new edition of the "World List of Scientific Periodicals" published in 1933, and it is hoped that the new list will be found useful. It contains the names of many periodicals recently started and not found in the new World List.

The thanks of the Editor and of the Zoological Record Committee are again due to Dr. W. T. Calman, Mr. J. R. Norman, Mr. M. A. C. Hinton, Mr. A. T. Hopwood and Mr. J. R. le B. Tomlin for assistance in reading proofs of those Records in regard to which they have special knowledge ; while Mr. H. G. K. Molineux has again sent a number of references to obscure papers published in Russian and other difficult languages.

The accounts of the "Record Fund" printed overleaf show a balance to the credit of the Fund of £2,070.

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EXPLANATORY.

This Volume is printed in the Divisions enumerated on p. vii.

The pagination of each Division is separate, and is given at the top corner of the pages. The number and name of the Division is given as a heading on each page. The date 1934 corresponding to the bulk of the literature indexed is given at the top of each page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

The Literature indexed is mainly that of 1934 but includes entries for earlier years that have been received too late for inclusion in previous volumes.

CONTENTS.

[The prices in brackets are those of Separate Divisions.]

- I. COMPREHENSIVE ZOOLOGY. By W. L. SCLATER, M.A.
Pp. 1-31. [3s.]
- II. PROTOZOA. By CECIL A. HOARE, D.Sc. (Lond.) and MISS
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INDEX TO NAMES OF NEW GENERA AND SUBGENERA, IN-
CLUDING NEW NAMES FOR GENERA PREVIOUSLY ESTABLISHED
RECORDED IN THIS VOLUME FOR 1933. By W. L. SCLATER,
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LIST OF ABBREVIATIONS WITH TITLES OF PERIODICALS, CON-
TAINING PAPERS DEALING WITH MATTERS OF ZOOLOGICAL
IMPORTANCE. Pp. 1-66. [2s. 6d.].

I. COMPREHENSIVE ZOOLOGY

ARRANGED BY

W. L. SCLATER, M.A.

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division as well as the literature on the Genetics of *Drosophila* and some other insects used as a vehicle for these special researches.

CONTENTS.

| | PAGE |
|--------------------------|------|
| I TITLES | 2 |
| II. SUBJECT-INDEX | 25 |

TITLES.

1.—**Abbie, A. A.** The morphology of the fore-brain arteries with especial reference to the evolution of the basal ganglia. *J. Anat. London* **68** 1934 pp. 433-470 11 figs.

2.—**Acworth, B.** This progress: the tragedy of evolution. Pp. 1-334 London (Rich & Cowan) 1934 8vo.

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5.—**Allen, W. E.** The problem of methods in marine Plankton investigations. *Int. Rev. Hydrobiol. Leipzig* **31** 1934 pp. 40-65.

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17.—**Babcock, E. B.** Genetic evolutionary processes. *Proc. Nat. Acad. Sci. Washington* **20** 1934 pp. 510-515.

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22.—**Baldi, E.** Schizzo della fauna limnetica del Trasimeno. *Verh. int. Ver. Limnol. Stuttgart* **6** 1934 pp. 283-290 1 fig.

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24.—**Barnes, T. C.** and **Jahn, T. L.** Properties of water of biological interest. *Quart. Rev. Biol. Baltimore* **9** 1934 pp. 292-341 7 figs.

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26.—**Bartenef, A.** Ueber einige Grundlagen der Geschichte und des Bestandes der paläarktischen Fauna. *Arch. Naturgesch. Leipzig* **3** 1934 pp. 289–310 3 text-figs.

27.—**Barteniev, A. N.** De l'histoire et de la composition de la faune palearctique. *Zool. J. Moscow* **12** Hft. 3 1933 pp. 121–144. [Russian with French rés.]

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29.—**Bauer, A.** Vererbungslehre, Rassen-Bevölkerungs- und Familienkunde. Pp. 78 Leipzig (Freitag) 1934. [N.V.]

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Benkert, L. H. vide Whiting.

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35.—**Berg, L.** Ueber die vermeintlichen Meereselemente in der Fauna und Flora des Baikalsees. *Bull. Acad. Leningrad* **1934** pp. 303–326. [Russian with German rés.]

36.—**Berg, L. S.** Ueber die amphiboreale diskontinuierliche Verbreitung der Meeresfauna in der nördlichen Hemisphäre. *Zoogeographica Jena* **2** 1934 pp. 393–409.

37.—**Berg, W.** Zur Bedeutung der tropfenförmigen Einschlüsse in den Lebezellen der Wirbeltiere. *Z. mikr. Anat. Forsch. Leipzig* **36** 1934 pp. 87–98.

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40.—**Bigalke, R.** A biological survey of the Union [of South Africa]. *S. Afr. J. Sci. Johannesburg* **31** 1934 pp. 396–404.

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41.—**Birkenmaier, O.** Vergleichend-anatomische Untersuchungen über die Zellkerngrösse im Wirbeltierstamm. *Z. Anat. Entw. Gesch. Berlin* **102** 1934 pp. 794–818 3 figs.

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43.—**Blakeslee, A. F. et Satina, S.** Les plantes différentes des animaux par des gamètes léthals? *C.R. Acad. Sci. Paris* **198** 1934 pp. 768–770.

Blöte, H. C. vide Wittenrood.

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- 45.—**Böhnke, K.** Die Fütterung der Meerestiere. *Aquar.* Berlin 1934 pp. 207-210.
- 46.—**Bolam, G.** A retrospect of the summer of 1933 [Alston, Northumberland]. *Vasculum Newcastle* 20 1934 pp. 4-8.
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- 49.—**Borcea, I.** Liste des animaux marins récoltés jusqu' à présent dans la région de la station d'Agiege (Mer noire). *Ann. sci. Univ. Jassy* 19 1934 pp. 398-407.
- 50.—**Borutzky, E. W.** Zur Frage ueber die Technik der quantitativen Untersuchungen der Bodenfauna. *Arb. Limnol. Sta. Kossino* 18 1934 pp. 109-132.
- 51.—**Boyden, A.** Precipitins and phylogeny in animals. *Amer. Nat.* New York 68 1934 pp. 516-536 4 figs.
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- 54.—**Breder, C. M.** Ecology of an oceanic fresh-water lake, Andros Island, Bahamas, with special reference to its Fishes. *Zoologica New York* 19 1934 pp. 57-88 10 figs.
- 55.—**Brehm, V.** Eine kleine Blütenlese aus der botanischen und zoologischen Nomenklatur. *Mikrokosmos Stuttgart* 26 1933 pp. 112-115.
- 56.—**Bremer, J. L.** A new type of slide holder for projection of serial sections. *Anat. Rec. Philad.* 59 1934 pp. 477-480 3 figs.
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- 59.—**Brjuchatowa, A. L.** Das Zooplankton der Petrowski-Seen. *Zool. J. Moscow* 12 Hft. 3 1933 pp. 73-93. [Russian with German rés.]
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- 65.—**Brunelli, G. e Cannicci, G.** Notizie preliminari sulle caratteristiche chimiche e biologiche del lago di Sabaudia (Paola). *Rend. Acc. Lincei* (6) 19 1934 pp. 345-351 map.
- 66.—**Buchsbaum, R. and M.** An artificial symbiosis. *Science* 80 1934 pp. 408-409.
- 67.—**Buddenbrock, W. von.** Ueber die kinetische und statische Leistung grosser und kleiner Tiere und ihre Bedeutung für den Gesamtstoffwechsel. *Naturwissenschaften Berlin* 22 1934 pp. 675-680.
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- 72.—Carpentier, C. J. Un Jardin Zoologique Marocain. Bull. Soc. Sci. nat. Maroc. **14** 1934 pp. 12-14.
- 73.—Carter, G. S. Results of the Cambridge Expedition to British Guiana, 1933. The freshwaters of the rain forest areas of British Guinea. J. Linn. Soc. London **39** 1934 pp. 147-193 2 pls. 3 text-figs.
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- 75.—Chauchard, A., B. et P. Recherches sur le fonctionnement. Bull. Lab. Maritime St. Servan no. **12** 1934 pp. 23-35.
- 76.—Chope, R. P. Devonshire animal and insect names. Rep. Devons. Ass. Adv. Sci. **66** 1934 pp. 327-355.
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- 78.—Colosi, G. Fauna italiana. Pp. xii + 642 35 pls. Torino (Unione Tip.-Ed. Torinesi) 1933 8vo. [N.V.]
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- 82.—Cooper, L. H. N. The determination of phosphorus and nitrogen in plankton. J. Mar. Biol. Ass. Plymouth **19** 1934 pp. 755-759.
- Cordier, R. *vide* Gérard.
- 83.—Corti, A. Angelo Andres. Boll. Zool. Torino **5** 1934 pp. 199-200.
- 84.—Coupin, H. La fécondation chez les animaux et chez les végétaux. Pp. 203 Paris (Baillière) 1934. [N.V. Notice Nature **134** p. 309.]
- 85.—Crawford, S. C. The habits and characteristics of nocturnal animals. Quart. Rev. Biol. Baltimore **9** 1934 pp. 201-214.
- 86.—Crew, F. A. E. and Lamy, R. The second linkage group in *Drosophila pseudo-obscura*. J. Genet. London **29** 1934 pp. 269-276 1 pl.
- 87.—Crossland, C. The Red Sea Biological Station of the University of Egypt. Nature London **134** 1934 pp. 743-744 photo.
- 88.—Csik, L. Die Zusammenarbeit einiger Gene bei der Determination der Flügelgrösse von *Drosophila melanogaster*. Biol. Zbl. Leipzig **54** 1934 pp. 614-645 39 figs.
- 89.—Cutore, G. Cellule interstiziali e cellule xanto-crome. Monit. zool. ital. Firenze **44** Suppl. 1933 pp. 15-32.
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II.—SUBJECT INDEX.

The full reference will be found under "Titles" by means of the author's name and number.

COMPREHENSIVE AND GENERAL.

General Works.—Biology, HARTMANN, 197; Biological problems, LIPPMANN, 280; Biology and education, LAUWERYS & BAKER, 267; Teaching biology, COLE, 77; Physiology, BARCROFT, 23; Psychology, MUNN, 326; ROBSON, 396; RUSSELL, 402; Embryology and genetics, MORGAN, 323; History of embryology, NEEDHAM, 328; Ecology, ELTON, 128; Evolution and struggle for existence, GAUSE, 157; Genetics, BAUER, 29; KRONACHER, 258, 259; Fauna of Germany, BROHMER & OTHERS, 61; Atlantis and problems involved, FORREST, 142; Tertiary palaeontology, DAVIES, 101; Palaeopathology, PALES, 349.

Textbooks.—General Zoology, BOHN, 44; Vertebrate anatomy, BOLK, 47; Comparative physiology, ROGERS, 398; Cytology GEITLER, 163; SHARP, 426; Experimental embryology, HUXLEY & DE BEER, 223; Pathology, MÖNNIG, 317; Marine Plankton, JOHNSTONE & OTHERS, 235; Parasites of domestic animals, CAMERON, 70; Palaeontology, HENNIG, 209; Vertebrate palaeontology, ROMER, 399.

General Biological Problems and Hyperzoology.—HESSE, 216; Recent progress in evolution study, CONKLIN, 81; Axioms and theories, MEYER, 314; Causal in biology, MEYER, 315; Vitalism, WERMEL, 517; Living and non-living, LILLIE, 277; Teleology, RICHTER, 390; Applied biology, BRIERLEY, 57; Biology and politics, FANTHAM, 132.

Popular Sketches.—HECK, 202.

History.—Biology, LIPPMANN, 280; Embryology, NEEDHAM, 328; Recent history of evolution, CONKLIN, 80; Entelechia and Aristotle, RITTER, 394; Azara's biological ideas, LOPEZ, 287; Schwann's cell-theory, STUĐIČKA, 466; A 1550 Museum in Italy, NEVIANI, 333.

Biography.—F. de Azara, LOPEZ, 287; W. J. Burchell, MCKAY, 295; E. Haeckel, WICHLER, 523; MACBRIDE, 291; SCHMIDT, 416; E. F. Kelaart, KELAART, 243; A. D. d'Orbigny, ROULE, 400; A. Paré (1510-1590), GERMINY, 166; S. Rafinesque, PRATTIE, 360; A. Weismann, SCHLIEP, 412; SPEMANN, 446; G. White, MARTIN, 305.

Biography: Obituaries. — E. D'Albertis, VINCIGUERRA, 506; A. Andres, CORTI, 83; T. L. Bancroft, TRYON, 496; F. A. Bather, LANG, 263; H. Baum, ZIETZSCHMANN, 546; A. von Brandt, BRANDT, 53; K. Brandt, REIBISCH, 382; R. Disselhorst, STEIVE, 460; P. Enriques, COLOSI, 79; A. Gallardo, MACDONAGH, 294; F. W. Miller, RABL, 374; E. Modigliani, VINCIGUERRA, 505; F. Baron Nopcsa von Felsöszilvas, EDINGER, 122; S. Paulli, HJORTLUND, 219; O. Pfungst, HENNEBERG, 208; J. Reinke, NIENBURG, 335; R. F. Scharff, PRAEGER, 370; C. P. Sluiter, IHLE, 225.

Bibliography. — Zoology 1932-33, FIELD, 133; Zoogeography 1931, RENSCH, 388; Medical and Veterinary zoology, HASSELL & POTTER, 199; Marine fauna of Cullercoats, Northumberland, BULL, 68; Spitsbergen, STRAND, 462; Publication dates, d'Orbigny, SHERBORN & GRIFFIN, 438; British Mus. catalogues, SHERBORN, 437; Critical note, HOFFMANN, 220; Works of Disselhorst, STEIVE, 460; Enriques, COLOSI, 79; Gallardo, MACDONAGH, 294; Pfungst, HENNEBERG, 208; Gilbert White, MARTIN, 305.

Conservation. — General address, MERRIAM, 310; Sanctuaries in Italy, ANSELMINI, 13; Conservation in Natal, DU PLESSIS, 366.

Methods; Microscopical. — General, GRAUPNER, 182; Living cells, FREDERIKSE, 147; Destroying cell-masses, BROWN & HENRY, 62; Fixation, LEWITSKY, 274; RAO & RAMASWAMI, 377; Transparent chamber technique, WILLIAMS, 524; Centrifuging methods, HARVEY, 198; Microscopic slide covers, HARMER, 195; Serial slide-holder, BREMER, 56.

Methods; Palaeontology.—EHRENBERG, 124; PEYER, 363.

Methods; Ecology and Hydrography.—JAKUBSKI, 229; ALLEN, 5; KITCHING & OTHERS, 246; MOORE, 320; HECHT, 201.

Methods; Miscellaneous. — For systematic work, RISBEC, 393; RENSCH, 387; Classification by lettering, ICARD, 224; Spectroscopic methods, RAMAGE, 376; Infra-red photos in anatomy, MASSOPUST, 306; Mathematical methods, MAGNAN & SAINTE-LAGÜE, 298; Colour nomenclature and classification, TAYLOR, 484; Osteological methods, GREEN, 184; For fixing small live animals, WULF & DURFEE, 538; Modern taxidermy, AGACINO, 3; Aquarium breeding technique, BOHNKE, 45.

Museums and Institutions.—European and American Zoological Gardens, KURODA, 262; Meknes Zool. Garden, CARPENTIER, 72; Trias fossils in Madrid Museum, SOS, 444; Salzburg Cave Museum, WALDNER, 513; Fossil collection of the Vienna Museum, EHRENBERG, 124; Marine Station, St. Servan, France, MANGIN, 300; At Kristineberg, Sweden, LÖNNBERG & GUSTAFSON, 286; Red Sea Biological Station, CROSSLAND, 87.

Economics. — Proposed Biological Survey of South Africa, BIGALKE, 40; Predators of the Culicidae, HINMAN, 218.

MORPHOLOGY.

General.—Vertebrate anatomy, BOLK, 47; The Tetrapod limb, HOLMGREN, 221; Biomathematical methods, MAGNAN & SAINTE-LAGÜE, 298.

Nervous System and Sense Organs.—Brain, WRIGHT, 535; Nerve fibres and fibrillae, LANGELAAN, 265; BARON, 25; STEFANELLI, 449, 450, 451; Analogies of eye structure, Vertebrates and Invertebrates, NOVIKOV, 337; Eye and its glands, NOWIKOFF, 338; Vitreous body of eye, STUDNIČKA, 468; Semicircular canals, VILLEMEN & BEAUVIEUX, 504.

Osteology.—Bone structure, HEIM, 205; WRIGHT, 536; Isomerism in skull, GREGORY, 185; Vertebrae, MOOKERJEE, 318.

Myology.—LANGELAAN, 264.

Other Organs.—Vertebrate circulatory system, HAUSMANN, 200; Size of heart, STIEVE, 461; Blood vessels of anterior limb, ABBIE, 1; GRODZINSKI, 188; Capillaries, VOLTERRA, 509; Liver, MAXIA, 308; Vertebrate penis, TONUTTI, 494.

Histology.—A new classification of tissues, DANINI, 93; Present state of our knowledge, SCHMIDT, 417; Connective tissue, DOLJANSKI & ROULET, 110; Retina of Vertebrates, FONTANA, 141; FRANZ, 145.

Cytology: General.—Textbooks and general works, BACQ, 19; BATAILLON & TSCHOU-SU, 28; GEITLER, 163; SHARE, 436; Critical notes on cell theory, STUDNICKA, 467; Cell size and growth, BIRKENMAIER, 41; WERMEL & OTHERS, 518; Ontogeny, TOKIN, 493; Mitosis problems, PICON, 365; Methods with living cells, FREDERIKSE, 147.

Cytology: Special Problems.—Nuclei, BENSLEY, 34; EAST, 118; KOLTZOFF, 249; Chromosomes, GATES, 156; GERSCHENSON, 167; LEVITSKY, 274; METZ, 313; SCHKWARNIKOW, 414; Spindle fibres, SCHRADER, 422; Mitochondria, PAYNE, 357; Chromatophores, HERRICK, 210; Melanin formation, GRAUPNER, 183; Ergestoblastic structure, VOINOV, 508; Chondriome, SZEPSENWOL, 477.

Cytology of various Tissues.—Nerve cells and fibres, KRUSZYNSKI, 261; LEVI, 272; Phagocytes and absorption cells of gut, SCHLOTTKE, 415; Wandering cells of intestine, STENQVIST, 454; Liver, BERG, 37; Spleen, GIOVANNI, 172; Seasonal changes in thyroids, WATZHA, 514; Interstitial cells and xanthochromism, CUTORE, 89.

PHYSIOLOGY.

General. — BARCROFT, 23; Mass physiology, ALLEE, 4; Life in brackish waters, SCHLIEPER, 413.

Nervous System and Sense Organs.—Vertebrate nervous system, BURKITT, 69; LAPICQUE, 266; Neuro-motor problems in marine life, CHAUCHARD, 75; Cerebral action currents, PERKINS, 331; Degeneration and regeneration of nerve elements, BARON, 25; Vision,

VERRIER, 502; Iris reaction, v. STUDNITZ, 469; Accommodation, FRANZ, 146; Hearing, STEINHAUSEN, 452.

Muscular and Ciliary Action.—General, BROCK, 60; HERTZ, 215; Striped muscle, DAHLGREN, 90; v. STUDNITZ, 470; Ciliary movement, WORLEY, 534.

Nutrition and Digestion.—In lower animals, KRÜGER, 260; Digestive ferments, KORSCHUJEV & KOSCHTOJANZ, 252; Digestion of marine invertebrates, EDGE, 121; Of vegetable fibres, MANGOLD, 301; Photosynthesis and food supply, ALLEN, 6; Body size and nutrition, v. BUDDENBROCK, 67; Endocrines and calcium metabolism, ZWARENSTEIN, 549; Vitamins, VERZAR, 503; Liver fats, QUERNER & STURM, 372.

Respiration, Circulation and Excretion.—Vertebrate circulation, HAUSMANN, 200; Respiration in marine life, RAFFY, 375; Haematocyanin, REDFIELD, 380; Anhydrase activity, FLORKIN, 140; Life without CO₂, v. BRAND, 52; Sedimentation constants, SVEDBERG & HEDENIUS, 476; Vertebrate excretion, GERARD & CORDIER, 164.

Reproduction.—Textbook, ROBSON, 396; General, RABAUD, 373; GERHARDT, 165; Fecundation, COUPIN, 84; BATAILLON & TSCHOU-SU, 28.

Growth Problems.—General, BACKMAN, 18; BERTALANFFY, 38; TEISSIER, 486; Effect of Rontgen Rays, ERDMANN, 130; Heterogony, NEEDHAM, 329; Marine organisms, FISCHER-PIETTE, 136; Auto-catalytic growth, KAVANAGH & RICHARDS, 241; Phylogenetic growth of brain, LAPICQUE, 266; Growth of nerve fibres, STEFANELLI, 449, 450.

Endocrine Physiology.—Hypophysis, EVANS, 131; JORES & HOTOPI, 237; Thyroid and bone-fracture, ROBUSCHI, 397.

Miscellaneous.—Colour change, GIESSBERG, 171; Chromatophores, PARKER, 352; Bacterial viability, WINSLOW, 526; Effects of freezing, KALABUCHOV, 239; Protoplasm and adaptation, LEWIS, 273.

Experimental Physiology.—Action of anaesthetics, HEILBRUNN, 204; Cell cohesion, GROSSFELD, 189; Cells in "in vitro" cultivation, VERCELLANA, 501.

Biochemistry.—Chemical basis of classification, LECOMTE DU N., 270; Biochemistry and morphology, NEEDHAM, 339; Heterogony and chemical changes, NEEDHAM, 329; Water and life, BARNES & JAHN, 24; Life without CO₂, v. BRAND, 52; Heavy water and metabolism, FOX, 144; Lyochromes, ELLINGER & KOSCHARA, 127; Haemocyanin, REDFIELD, 380; Melanin, GRAUPNER, 183; Carotinoids, LONNBERG, 283, 284, 285; ZECHMEISTER, 544; Vanadium, VINOGRADOV, 507; Glycemy, BERTHOUMEYROUX & SOUTERBICQ, 39; Ph. and N. in plankton, COOPER, 82; Albumin, KEDROVSKIJ, 242; Fats in plankton, GUNTHER, 192; Oxygen content of rock pools, STEPHENSON & OTHERS, 456; Organic material in fresh-water streams, WINBERG & OTHERS, 525.

Biophysics.—Electrokinetic studies on ova, DAN, 92; Capillary index of animal oils, MARCELET, 301a.

EMBRYOLOGY.

General Works and Problems.—History, NEEDHAM, 328; Textbook, Experimental Embryology, HUXLEY & DE BEER, 223; Recapitulation theory, JESHIKOV, 233; Epigenesis and preformation, KOLTZOFF, 250; Origin of Amniota and limbs, GLUCKSMANN, 175.

Early Stages.—DANTCHAKOFF, 94; Segmentation in Vertebrates, SULC, 473.

Organogeny.—Vitreous body of eye, JELJANKOWA - RASPALLEWA, 231; Haematogenesis, POWER, 369; Connective tissue, BAUER, 30; Striped muscle, GLUCKSMANN, 176; Blood-vessels of anterior limb, GRODZINSKI, 188.

PALAEONTOLOGY.

General Works and Problems.—Textbook, HENNIG, 209; ROMER, 399; Palaeopathology, PALES, 349; Palaeo-

zoic plankton, RUEDEMANN, 401; Tertiary faunas, DAVIES, 101; "Nests" of fossils, SCHOEWE & LENAHAN, 420; Mass destruction in recent Vertebrates, ZELIZKO, 545.

Special Studies.—Belgian fossils, MAILLIEUX, 299; Triassic life in Spain, SOS, 444; The vertebrate bone beds of Geiselal, Germany, WEIGELT, 515.

ETHOLOGY.

Ecology; General Works.—ELTON, 128; RUSSELL, 402; Recent progress, KROUGH, 257; Environments, LIVINGSTONE, 281; Adaptation and segregation, PEARSE, 359; Periodic and sporadic appearances, RENOUEF, 386; Ecological balance, ZIMMER, 547.

Ecology; Local Studies.—Studland, Dorset, DIVER & GOOD, 108; Sub-littoral, Devon, KITCHING, 246; Scolt I., Norfolk, STEERS, 448; Cheshire, BRITEN & WILLIAMS, 58; Shores, L. Windermere, MOON, 319; Silesian moors, SCHUBERT, 425; Japan, UENO, 497; Formosa, TAKAHASI, 478; Gt. Barrier Reef, Qsland., RUSSELL & COLEMAN, 404; Utah, WOODBURY, 533; Missouri and Oklahoma forests, BROWN, 63; Oklahoma salt plains, ORTENBURGER & BIRD, 342; Labrador, EIDMANN, 125; Greenland soils, JØRGENSEN, 238.

Limnology; General Works and Problems.—GROTE, 190; HALBFASS, 193; THIENEMANN, 488; Quantitative methods, BORUTZKY, 50; Plankton periodicity, WEIMANN, 516; Biochemistry of organic matter, WINBERG & OTHERS, 525; Studies in brack water faunas, BRUNELLI, 64; WISZNIEWSKI, 527; REDEKE, 379; SCHLIEPER, 413; GESSNER, 170; LENZ, 271.

Limnology; Local Researches, Europe.—Northumberland salt marshes, NICOL, 334; Swedish lakes, GESSNER, 169; Silesian ponds, KREUTNER, 256; Switzerland, ANDRE, 10; LINDER, 278, 279; STEINMANN & SURBECK, 453; Hot-springs, Carinthia, STROUHAL, 464; Hungary, GEBHARDT, 162; MESCHKAT, 311; Poland, RZOSKA, 405; Finland, JARNEFELT, 230; Russia, BRJUCHATOWA, 59; DECKSBACH, 103;

TAUSON, 482, 483; Italy, APOLLONI, 15; BALDI, 22; BRUNELLI & CANNICCI, 65; GALLICO, 154; MERCIAI, 309.

Limnology; Extra-European Researches.—Japan, UENO, 498; YOSHIMURA, 540, 541, 542; Kurile Is., UENO, 499; Calcutta Salt Lakes, SEWELL, 435; British Guiana, CARTER, 73; Bahamas, BREDER, 54; Washington State, SCHEFFER, 410; Utah, TANNER, 481; Upper Mississippi, REINHARD, 383; Michigan, DOLLEY, 111; Illinois, EDDY, 119; Lake Michigan, EGGLETON, 123; Lake Erie, KRECKER & LANCASTER, 254; Ontario streams, RICKER, 391; Lake Winnipeg, BAJKOV, 21; Brit. Columbia, RAWSON, 378.

Oceanography; General Works and Problems.—Textbook, marine plankton, JOHNSTONE & OTHERS, 235; Recent progress, VAUGHAN & OTHERS, 500; Research methods, ALLEN, 5; Ph and N in plankton, COOPER, 82; Oxygen and vertical migration, NIKITINE & MALM, 336; List of stations of the campaigns of the Prince of Monaco, RICHARD, 389.

Oceanography; Local Studies.—Baltic, REMANE, 384, 385; SEGERSTRALE, 429; Biscay, PRENANT, 371; Mediterranean, d'ANCONA, 9; ISSEL, 226, 227; Black Sea, ANTIPA, 14; PASPALEFF, 353; China coasts, SCHODDUYN & LEROY, 419; Japanese plankton, KOBUBO & TAMURA, 247; Red Sea, SANTUCCI, 408; Arabian Sea, SEWELL, 423, 424; Off the Bermuda Is., BEEBE, 33; Off Nova Scotia, GARDINER, 155; Greenland waters, SPABCK, 445; THORSON, 489; Antarctic plankton, MACKINTOSH, 297.

Spelaeological Studies.—Classification of caves, DUDICH, 117; List of cavernicolous animals, WOLF, 532; Fauna of Schwelm, Westphalia, GRIEPENBURG, 187; Hungary, KOLOS-VARY, 248; Casciane, near Florence, ANDREUCCI, 11; Kentucky, BAILEY & OTHERS, 20; West Virginia, REESE, 381.

Other Habitat Studies.—Subterranean canal near Marseilles, GAVER & TIMSON-DAVID, 160; Soil fauna of woods, VOLZ, 510; Fauna of plants in tropics,

THIENEMANN, 487; Coral Reef fauna, STEPHENSON, 455; RUSSELL & COLEMAN, 304.

Effects of Environment.—Sunshine and body temperature, STRELNIKOW, 463; Temperature changes and marine life, TCHANG-SI, 485.

Population Problems.—In Vertebrates SEVERTZOFF, 431; Of deciduous forests, DAVIDSON, 100; Seasonal variation, DAVIDSON, 100; Population of Suez Canal, GRUVEL, 191.

Migrations.—Vertical distr., FISCHER-PIETTE, 138.

General Habits.—RUSSELL, 402; Bionomics of Indian freshwaters; SEWELL, 432; Nocturnal habits, CRAWFORD, 85; Food of marine life in aquariums, BOHNKE, 45; Breeding habits of coral reef animals, STEPHENSON, 455.

Psychology.—General works, MUNN, 326; RUSSELL, 402, 403; SCHIERBECK, 411; Behaviour, ANON., 12; Instinct, PORCHEREL, 368; Thought, FISCHER, 135; Shyness, HEDEGER, 203; Learning process, HUNTER, 222.

Faecal Pellets.—EDGE, 120.

AETIOLOGY.

Evolution; General and Critical Works and Addresses.—MIGNON, 316; ZIMMERMANN, 548; Controversial, ACWORTH, 2; Principle of Aristogenesis, OSBORN, 343, 344, 345; Recent views on evolution, CONKLIN, 80.

Evolution; Special Problems and Views.—Darwin's idea of heredity, ROBERTSON, 395; Effects of environment, FORTUYN, 143; Dominance, FISHER, 139; Adaptation, HARMS, 196; Inheritance of acquired characters, DAVENPORT, 99; MacBRIDE, 292; Inheritance of habits, MAULIK, 307; BOND, 48; Recapitulation, JESHIKOV, 233; Concurrence, GAUSE, 158; Transformism or fixism, GAUTIER, 159; Behaviours and psychology, FISCHER, 134; Isomerism in cranial evolution, GREGORY, 185; Mechanical factors in brain evolution, WRIGHT, 535.

Variation and Mutation.—Mutation and genetics, STUBBE, 465; Adaptation and mutation, WITZEMANN, 530;

Ultra-violet light influence, ALTENBURG, 8; Individual variation and temperature, JEZHNIKOV, 232.

Genetics.—General works and reviews BAUER, 29; DARLING, 95; KRONACHER, 259; MULLER & PROKOFJEVA, 325.

Genetics; Special Problems.—Experimental mutations, TIMOFÉEFF-RESSOVSKY, 491; Evolution and genetics, BABCOCK, 17; Mutation and genetics, STUBBE, 465; Embryology and genetics, MORGAN, 323; Dominance, WRIGHT, 537; Cytoplasm and heredity, GOLDSCHMIDT, 177; Mendel's law and chromosomes, SCHREIBER, 423; Chromosomes and X-rays, LEWITSKY & SIZOWA, 275; Genes and their location, DUBININ & SIDEROFF, 114; Cross-over problems, LUDWIG, 289; Sex control, CASTLE, 74; Lethal gametes, BLAKESLEE & SATINA, 43; Reaction to disease, GOWER, 179; To radiation, OLIVER, 340; Chromosome sheath and mitosis, METZ, 313; Temperature and chiasma frequency, WHITE, 519; Temperament and genetics, SADOVNIKOVA-KOLTZOVA, 406; Taxonomy and genetics, SUMNER, 474.

Genetics of *Drosophila*.—ALTENBURG, 8; BEADLE, 31, 32; CREW & LAMY, 86; CSIK, 88; DARLINGTON, 96, 97; DEMEREC, 104, 105, 106; DOBZHANSKY & SCHULTZ, 109; DUBININ, 112; DUBININ & HEPTNER, 113; DUBININ & SIDEROV, 115; DUBININ & OTHERS, 116; FRIESEN, 148, 149, 150, 151; GERSHENSON, 168; GLASS, 173, 174; GOTTSCHIEWSKI, 178; GOWER & GRAY, 180; GRAUBARD, 181; HANSON & HAYS, 194; HEITZ, 206, 207; HERSH, 211, 212, 213; HERSH & FELDSTEIN, 214; JOHNSTON & WINCHESTER, 234; KIKKAWA, 244, 245; KOLTZOFF, 251; LEBEDEFF, 268, 269; LI, 276; LOBASOV & SMIRNOV, 282; LUDWIG, 288; LUTZ & GRISEWOOD, 290; MACKENSEN, 296; MARGOLIS, 302, 303; MOORE, 321, 322; MORGAN & OTHERS, 324; NAVILLE & GUYÉNOT, 327; NEUHAUS, 332; OLIVER, 339; PAINTER, 346, 347, 348; PATTERSON & SUCHE, 354, 355; PATTERSON & OTHERS, 356; PHILIP, 364; PLOUGH & IVES, 367; SAMOKHVALOVA, 407; SCHUBEL, 424; SCHULTZ & DOBZHANSKY, 426; SCHWEITZER, 428; SHULL & WHITTINGHILL, 439; SIDEROV, 440,

441; SOKOLOV, 442; SPENSER, 447; STERN, 457, 458; STURTEVANT, 471; TIMOFÉEFF-RESSOVSKY, 490, 491, 492; TROFIMOV, 495; ZAMYATINA & POPOVA, 543.

Genetics of *Habrobracon*.—WHITING, 520, 521; WHITING & BENKERT, 522.

Problems of Sex.—Fertilization, GERSCHENON, 167; Origin and determination, DARLINGTON, 98; Sex control, CASTLE, 74.

Parasitism.—Textbooks, CAMERON, 70; MÖNNIG, 317.

Symbiosis.—Biomathematics, KOS-TITZIN, 253; Artificial, BUCHSBAUM, 66; Endosymbiosis and parasitism, RIES, 392; Invertebrates and algae, YONGE, 539.

Pathology.—Textbook, MÖNNIG, 317; In Zoological Gardens, CAMPBELL, 71; Artificial limbs of animals, SCHNEIDER, 418.

Hermaphroditism.—ALTENBURG, 7.

Mimicry.—Protective coloration, SUMNER, 475.

Regeneration.—ORECHOWITSCH & BROMLEY, 341; WOIKEWITSCH, 531.

Mortality and Extinction.—Extinction of species, GAAL, 153; Embryological basis of mortality, KATAYAMA, 240; Mass destruction of Vertebrates, ZELIZKO, 545; Destruction by automobiles, DAVIS, 102.

Phylogeny.—Vertebrates, ROMER, 399; SÄVE-SÖDERBERGH, 409; Origin of Amniote limbs, GLÜCKSMANN, 175; HOLMGREN, 221; Vertebral column, SUEIRO, 472; Phylogeny and serology, BOYDEN, 51.

Taxonomy.—Genetics and taxonomy, SUMNER, 474; Nomenclature, RENSCH, 387; Concepts of species and subspecies, TANAKA, 480.

Nomenclature.—Critical, BREHM, 55; General rules, KREJCI-GRAF, 255; List of Genera, SCHULZE & OTHERS, 427; Nomina conservanda, HEWER, 217; Terminology of types, FRIZZELL, 152; Bodadsch's names, ENGEL, 129; Vernacular names, Devonshire, CHOPE, 76.

GEOGRAPHY AND FAUNAS.

General Problems of Zoogeography.—

Willis' age and area theory, WITTENROOD & BLÔTE, 528; Bipolarity problem, STIASNY, 459; History and origin Palaearctic fauna, BARTENEF, 26, 27; Circumpolar distribution, NETOLITZKY, 331; BERG, 36; Relations of the Pacific to other oceans, EKMAN, 126; Problems of the Antarctic, WITTMANN, 529; The "Atlantis" hypothesis, FORREST, 142; Origin of Hungarian fauna, Soós, 443; Of the fauna of Lake Baikal, BERG, 35; TALICO & BAZIKALOVA, 479; Zoo-geographical problem of Ceylon, WAIT, 512; Tertiary faunas, DAVIES, 101.

Palaearctic Region; Europe.—Hertfordshire, PALMER, 350; Norfolk, STEERS, 448; Dorset, DIVER & GOOD, 108; Cheshire, BRITTEN & WILLIAMS, 58; Westmoreland, MOON, 319; Northumberland, BOLAM, 46; NICOL, 334; Co. Cork, RENOUEF, 386; I. of Wight, JACKSON, 228; South Rona, PEACOCK, 358; France, DALMON, 91; GAVER & TIMSON-DAVID, 160; PARIS, 351; Switzerland, ANDRÉ, 10; LINDER, 278 279; STEINMANN & SURBECK, 453; Germany, BROHMER & OTHERS, 61; Westphalia, GRIEFENBURG, 186, 187; Silesia, KREUTNER, 256; SCHUBERT, 425; Austria, STROUHAL, 464; Hungary, GEBHARDT, 161, 162; KOLOS-VARY, 248; MESCHKAT, 311; Soós, 443; Poland, RZOSKA, 405; Finland, JÄRNEFELT, 230; Sweden, GESSNER, 169; Russia, BRJUCHATOWA, 59; DECKSBACH, 103; TAUSON, 482; Italy, ANDREUCCI, 11; ANSELM, 13; APOLLONI, 15; BALDI, 22; BRUNELLI & CANNICCI, 65; COLOSI, 78; GALLICO, 154; MERCIAI, 309; Yugoslavia, DEPOLI, 107.

Palaearctic Region; Extra-European.—Tunisia, SEURAT, 430; Japan, UÉNO, 497, 498; YOSHIMURA, 541, 542; Kurile Is., UÉNO, 499.

Oriental Region.—India, SEWELL, 422, 425; Ceylon, WAIT, 512; Formosa, TAKAHASI, 478.

Australian Region.—Queensland, STEPHENSON, 455.

Indian Ocean—Kerguelen, AUBERT DE LA R., 16.

Neotropical Region.—Argentina, MACDONAGH, 293; WAGNER, 511; Brit. Guiana, CARTER, 73; Bahamas, BREDER, 54.

Nearctic Region.—United States, KRECKER & LANCASTER, 254; Washington State, SCHEFFER, 410; Utah, TANNER, 481; WOODBURY, 533; Oklahoma, ORTENBURGER & BIRD, 342; Missouri and Oklahoma, BROWN, 63; Wisconsin, REINHARD, 383; Michigan, DOLLEY, 111; EGGLETON, 123; Illinois, DAVIDSON, 100; EDDY, 119; Kentucky, BAILEY & OTHERS, 20; W. Virginia, REESE, 381; Massachusetts, BLAKE, 42; Ontario, RICKER, 391; Labrador, EIDMANN, 125; Manitoba, BAJKOV, 21; Bt. Columbia, RAWSON, 378; Greenland, JØRGENSEN, 238; PETERS, 362.

Oceans and Seas.—Baltic, REMANE, 384, 385; LÖNNBERG & GUSTAFSON, 286; SEGERSTRALE, 429; English Channel, FISCHER-PIETTE, 137; Biscay, PRENANT, 371; Mediterranean, D'ANCONA, 9; GRUVEL, 191; ISSEL, 226, 227; Black Sea, ANTIPA, 14; BORCEA, 49; PASPALLEFF, 353; Bermuda seas, BEEBE, 33; Arabian Sea, SEWELL, 433; Red Sea, SANTUCCI, 408; Queensland seas, RUSSELL & COLEMAN, 304; Gulf of Pee-che-lee, SCHODDUYN & LEROY, 419; Japan seas, KOBUBO & TAMURA, 247; Arctic seas, BERG, 36; East Greenland waters, SPÄRCK, 445; THORSON, 489; Antarctic, MACKINTOSH, 297.

Extinct Faunas.—Carboniferous, Kansas, SCHOEWE & LENAHA, 420; Trias, Spain, SOS, 444; Tertiary, DAVIES, 101; Post-Tertiary, Schleswig SCHÖNFELDER, 421; French W. Afr., JOLLAUD, 236; I. of Wight, General, JACKSON, 228.

II. PROTOZOA

ARRANGED BY

CECIL A. HOARE, D.Sc.

AND

H. E. BARGMANN, Ph.D.

CONTENTS

| | PAGE |
|-----------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX:— | |
| Comprehensive and General | 41 |
| Economics | 41 |
| Miscellaneous | 43 |
| Structure | 44 |
| Reproduction and Life-Cycle... .. | 46 |
| Physiology | 46 |
| Ethology | 48 |
| Genetics | 55 |
| Distribution | 55 |
| III. SYSTEMATIC :— | |
| General | 57 |
| 1. Mycetozoa | 57 |
| 2. Rhizopoda | 57 |
| 3. Mastigophora | 65 |
| 4. Sporozoa | 68 |
| 5. Ciliophora | 69 |

FOREWORD.

Papers dealing with Protozoa entirely from a medical or veterinary standpoint (Clinical, therapeutic, etc.) are omitted, but notices of these will be found in *Tropical Diseases Bulletin* and *Veterinary Bulletin*.

I.—TITLES.

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II.—SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

Treatises, Text-books.—BOHN, 70; PARK & WILLIAMS, 583; ZINSSER & BAYNE-JONES, 850; Short general description and key to genera, REICHENOW, 627; Mycetozoa, MACBRIDE & MARTIN, 499; Amoebiasis, CRAIG, 182; Genus *Lepocinclis*, CONRAD, 163; Revision of the genus *Mallomonas*, CONRAD, 164 Textbook on the Algae (incl. Phytomonadida), FRITSCH, 279; Oriental sore, GITELSON, 316; Intestinal flagellates of *Cryptocercus* (monograph), CLEVELAND, ETC., 154; Plankton, JOHNSTONE, SCOTT & CHADWICK, 417; Soil protozoa, KOFFMANN, 446; Coccidia and coccidiosis, BECKER, 46; Ciliates and Suctoria, KAHL, 423, 424.

Addresses, Reviews.—Review of the literature of enzymes in protozoa, HAINES, 330; Genetics, JENNINGS, 408; Chapter on parasites, CAMERON, 113; Hyperparasitism in protozoa, SASSUCHIN, 661; Transmission of leishmaniasis, BOGLIOLO, 69, PARROT, 587; Transmission of Chagas' Disease, HOARE, 366; Bartonella and allied parasites, KIKUTH, 434.

History.—Biography and works of C. Chagas, VILLELA, 782; Aetiology and transmission of Sleeping Sickness, WEBB, 802.

Bibliography.—Mycetozoa, MACBRIDE & MARTIN, 499; Fusulinidae, SILVESTRI, 711; Foraminifera, THALMANN, 750; Bibliography of the Algae (Phytomonadida), FRITSCH, 279; Italian papers, 56.

Classification, Nomenclature.—Mycetozoa, MACBRIDE & MARTIN, 499; Rhizopoda, SAEDELEER, 654; Ostracod, JOHNSON, 415; Foraminifera, MACFADYEN & KENNY, 502; General foraminiferal nomenclature, CUSHMAN & PARKER, 199; Nomenclature of fossil Foraminifera, THALMANN, 751; Revision of some genera of Euglenoidida, CONRAD, 162; Peranemidae, HALL, 333; Revision of the genus *Mallomonas*, CONRAD, 164; Classification of the Algae (Phytomonadida), FRITSCH, 279; Trypanosome of pig, Congo, SCHWETZ, 685; *Tetramastix* invalidated, TRAVIS, 761; Phytodinozoa, connecting Dinoflagellates and Sporozoa, CHATTON & BIECHLER, 133; *Eumonospora* = *Caryospora*, HOARE, 364, ALLEN, 11; Systematic position of *Globidium*, BABUDIERI, 31, HARANT & CAZAL, 335; *Heterocinet* = *Hypocomatophora* (Ciliata), JAROCKI, 405; Ophryoscolecidae, DOGIEL, 232.

ECONOMICS.

General.—Biology of water works, BAJKOV, 33; Flagellates as food for Clams, SMITH, 718.

Petroleum sources.—California, BARBAT & JOHNSON, 36; Foraminifera from oilfields of N. Germany, EICHENBERG, 256, 257; Shale foraminifera from Alberta and Saskatchewan, WICKENDEN, 821.

Soil Protozoa.—ONO, 566; VOLZ, 787; Italy, BRUNETTI, 101, 102; Jerusalem soil, BODENHEIMER & REICH, 68; Japan, HINO, 363; Ecology of soil, KOFFMANN, 446.

Protozoa in Relation to Disease (see also under Parasitism).

General.—Pathogenic protozoa, PARU & WILLIAMS, 583, ZINSSER & BAYNE-JONES, 850; Popular account of parasites, VENZMER, 781; Diagnosis of intestinal protozoa, ANDREWS, 20; Incidence of intestinal protozoa in Columbia, ALICATA, 8; Mexico, ANDREWS, 18; In American Indians, OWEN, ETC., 570; Human intestinal protozoa in Ural region, ZERTCHANINOV & SEROV, 849, EPSTEIN & ZERTCHANINOV, 262; In Italian children, DE MURO, 221; Pathogenic protozoa of

domestic animals in Sardinia, CERRUTI, 122; Infections in poultry, BUCKLEY, ETC., 103; Bearing of protozoal infections upon cancer-aetiology, LOMBARD, 485.

Amoebiasis.—CALLENDER, 112; Text-book, CRAIG, 182; Diagnosis, MAGATH, 508; Complement fixation, TSUCHIYA, 762; Chicago epidemic, 1933, BUNDESEN, 104, 105; [Chesley *et al.*] 142, ANON, 23; Incidence in private patients, SUMERLIN, 731; In Mauritius, ADAMS & WEBB, 3; In U.S.A. students, WENRICH, ETC., 808; In U.S. prisoners, REED & JOHNSTONE, 621; Epidemiology, ANON, 25, CRAIG, 183; Contamination of water, HEGNER, 348; Fatal carrier case, LEIVA, 472; *E. histolytica* in finger-nails, ANDREWS, 19; Histopathology, MELENEY & FRYE, 527, RATCLIFFE, 615; Pathology in dogs, FAUST & KAGY, 264, 265; Viability of *Entamoeba*, SPECTOR & BUKY, 723; Distribution of entamoebae, ANON, 24; Absence of quadrinucleate amoebae in pigs, PAVLOFF, 590; *E. histolytica* in rats, ANDREWS, 22; Amoebae in submaxillary gland, MALOWITSCHKO & PUPENKO, 511; *E. gingivalis* in Azerbaidjan, ABDULABEKOW, 1.

Leishmaniasis.—DE, 205; In Egypt, KHALIL, 430; Distribution in Algeria, LASNET, 463; In Persia, COULOGNER, 180; In Russia, MARZINOWSKY, 520; Kala-Azar in Yugoslavia, TARTAGLIA, 744; *L. donovani* in nasal and oral secretions, FORKNER & ZIA, 273; Cutaneous, NAPIER & SMITH, 546; In Indian dogs, SINTON & SHORTT, 715; In dog (*L. donovani*), CAMINO-PETROS, 114; Transmission in Mediterranean region, PARROT, 587; Through flies, THOMSON & LAMBORN, 655; Of Kala-Azar by ticks, GIRAUD, 314.

Trypanosomiasis.—Katanga, Belg. Congo, BOUVIER, 79; Research methods and material, DUKE, 246; Rôle of game in Africa, DU PLESSIS, 252; Transmissibility of the polymorphic trypanosomes, DUKE, 247; *T. gambiense* diagnosis, MACPHERSON, 506; Failure of hereditary transmission of *Trypanosomiasis*, BRANDEN, 91; Immunization, SCHILLING, 666, 668; Diagnosis of *T. vivax*, SACEGHEM, 652; Cattle trypanosomiasis in Congo, HOOF & HENRARD, 370; In pig, Congo, SCHWETZ, 685, BOURGUIGNON & JUISANT, 77; Diagnostic method in

Murrina, TALIAFERRO & TALIAFERRO, 743; Experimental Chagas' Disease, CHAGAS, 123, 125; Chagas' Disease in Guatemala, REICHENOW, 626; *T. cruzi* in California, WOOD, 826; Life-history and transmission of *T. cruzi*, DIAS, 226, HOARE, 366; Duration of *T. cruzi* infection, DIAS, 225.

Flagellosis.—Histomoniasis, TYZZER, 763; Incidence and treatment of *Trichomonas vaginalis* infection, GLASSMAN, 317, KESSEL & GAFFORD, 429; Pathogenicity of trichomonads in cattle, WITTE, 824; Trichomoniasis of pigeons, WALLER, 794.

Plant infections.—Mycetozoan infection in *Zostera*, RENN, 633.

Coccidiosis.—Human *Isospora*, GUPTA, 202; In Caucasus, SIMIN, 713; Fowl-coccidiosis, YAKIMOFF, ETC., 841; Effect of diet on fowl coccidiosis, JONES, 419; Chronic infection in fowls, JOHNSTON, 416; Resistance to infection in chickens, HERRICK, 357; Treatment of chickens, MAYHEW, 526; Case of *E. tenella* in chicken, ALLEN 10; *Isospora* infection in pig, BIESTER & MURRAY, 63, 64; Epidemic in rabbits, JOSPIN, 420; Canine and feline, REINHARDT, 630, 631; In swamp-beaver (nutria), WALTHER, 795; Destruction of oocysts, YAKIMOFF, 836.

Malaria.—In Congo natives, SCHWETZ, 690, 691, 694, 695, 697; Species of parasites in Katanga, DIXON, 229; Congenital infection, SCHWETZ & PEEL, 696, LIÈVRE, 481; Untreated, LOWE, 488; Action of drugs on M.T. gametocytes, DECOURT, 206; *P. ovale* infections, MÜHLENS, 542, TONKING, 758; Anopheline vectors in India, IYENGAR, 396, 397, NURSING, ETC., 564; Parasite-rate, LOWE, 489; Immunity, CIUCA, ETC., 151; Antibodies and fever, SCHILLING, 667; Malaria tolerance, BOYD, ETC., 88; Susceptibility of Caucasians, BOYD & STRATMAN-THOMAS, 86.

Piroplasmosis.—*T. mutans* infection in Spain, GARCIA, 286; In France, JOUVE & BON, 421; Isolation of *Theileria* from mixed infection, DONATIEN & LESTOQUARD, 235; Theileriosis in Congo, SCHWETZ, 679; "Turning Sickness," METTAM, 530; Species in cattle of U.S.A., REES, 622; In zebu, YAKIMOFF, ETC., 840; Equine piroplasmosis in Spain, HERRANZ, 356; *P. canis* in Florida, EATON, 255.

Other Sporozoa, etc.—Anaplasmosis in Russia, YAKIMOFF, 832; In Spanish cattle, GARCIA, 285; Transmission of anaplasmosis, REES, 623; *Bartonella* infections, KIKUTH, 434; *Eperythrozoon* in sheep, NEITZ, ETC., 552; Toxoplasmosis of mice and guinea-pigs, NICOLAU & BALMUS, 556; In voles, FINDLAY & MIDDLETON, 267; *Leucocytozoon* infection of ducks, O'ROKE, 569; Sarcosporidia, general review, BOURNE, 78; Human sarcosporidiosis, HERTIG, 358.

Ciliates.—Balantidiosis lesions, RATCLIFFE, 615; Pathology, CALLENDER, 112; Method of infection of ruminants, STRELKOW, ETC., 728; *Ichthyophthirius* infection, LOBELL, 482.

Prophylaxis.—Bayer 205 in human trypanosomiasis, DUKE, 245, CORSON, 172; Atebrin in malaria, SOESILO, 719.

Chemotherapy.—Drug-resistance in trypanosomes, JANCsó, N. & H., 403, WALLACE, 793, YORKE, 846, BOURGUIGNON, 76; Drugs in rat-trypanosomiasis, CHRISTISON, 147; Action of acriflavine on trypanosomes, HAWKING, 339; Action of "Bayer 205" on trypanosomes, JANCsó & JANCsó, 404; Action of copper upon *Tryp. equiperdum*, PERLA, 597; Treatment of *Tryp. annamense*, LAUNOY, 464; Effect of antimalarial drugs, MOSHKOVSKI & BUROVA, 541, MORISHITA, ETC., 539; Rhodiquine and quinacrine in malaria, SERGENT & VOGT, 703; Action of atebrin and plasmoquine upon *Plasm. falciparum*, MANSON-BAHR & WALTERS, 513; "915 Fourneau" against *Plasm. falciparum*, SERGENT & VOGT, 702; Monkey malaria, CHOPRA & GUPTA, 146, NAUCK, 551; Bird-*Plasmodium*, MANWELL, 515; Atebrin in bird malaria, TATE & VINCENT, 746, RUSSELL, 648; Quinine in bird-malaria, LOURIE, 486; Quinoleins in bird malaria, BOVET, ETC., 81.

MISCELLANEOUS.

Laboratory Methods and Technique.—General, COOPER, 165; Concentration of free-living forms and attachment to coverslip, BALDWIN, 35; Thick blood-films, BENAVIDES, 49; Properties of paramylon, DEFANDRE, 211; Technique for demonstrating vacuome,

FINLEY, 269; Glycogen reactions, GIOVANNOLA, 310; Feulgen nuclear reaction, SASSUCHIN, 662; Plankton-nets, REDEKE, 620; Collection of freshwater plankton, GEIST, 297, WEIMANN, 804, WILLIAMS, 823, 823; Mycetozoa, SKUPIENSKI, 717; Collecting and staining *Pelomyxa*, FORTNER, 274; Soil protozoa, FRANCÉ, 275, KOFFMANN, 446, VOLZ, 787; Amoeba, CHALKLEY & DANIEL, 128, GELEI, 301, 309, HOWLAND & BERNSTEIN, 380; Nuclear stain for Amoeba, McDANIELS, 501; Diagnosis of amoebiasis, MAGATH, 508; Staining Rhizopods, JEPFS, 410; Testacea, JUNG, 422, VOLZ, 786; *Diffugia*, REUKAUF, 636; Nuclear staining in *Gromia*, JEPFS, 409; Methods of collecting Foraminifera, SHUPACK, 710; Technique for fossil foraminifera, CARSON, 118, HECHT, 340; Photographing fossil Foraminifera, HECHT, 341; Mounting Foraminifera, HECHT, 342; Arenaceous foraminifera, SECRIST, 700; Staining peridinians, BIECHLER, 59, CHATTON & HOVASSE, 134; Silicoflagellata, DOEBERTHLEN, 230; Collection of *Euglena*, GOJDICS, 319, CHANG, 129; Staining *Colacium*, JOHNSON, 414; Complement deviation in trypanosomiasis, ZOTTNER, 851; Diagnosis of *Tryp. gambiense*, MACPHERSON, 506; Of *Tryp. hippicum*, TALIAFERRO & TALIAFERRO, 743; Vital staining of *Plasmodium* sporozoites, GIOVANNOLA, 312; Preparations of sexual forms of *Plasmodium*, JAMES, 402; Concentration method for malarial parasites, LANDEIRO 461; Avian malarial parasites as classroom material, MANWELL, 518; Blood smears for diagnosis of piroplasmiasis, PAINE, 575; Isolation of *Theileria* from mixed infection, DONATIEN & LESTOQUARD, 235; Ciliata, CHILD, 143, GELEI, 303, 305, HETHERINGTON, 359; Staining Ciliates, GARNJOBST, 287; Method for counting ciliates, ATCHLEY & SWEZEY, 30; *Paramaecium*, ALPATOV & NASTJUKOVA, 15, GELEI, 299, 304, 306, 308, KOEHLER, 445, LUYET, 493, MACLENNAN & MURER, 505; Staining *Paramaecium*, CHILD, 144; Feeding *Paramaecium*, PHELPS, 600; Ingestion in *Paramaecium*, COLE, 159; Centrifuging *Paramaecium*, KING & BEAMS, 436; Trichocysts of *Prorodon*, KRÜGER, 452; Hypotrichida, GELEI, 307; *Euplotes*, GELEI, 302, KING, 435a; *Vorticella*, MADEYSKI, 507; Suctorina, REUKAUF, 635.

Cultivation.—Marine and freshwater protozoa, PENN, 593; Intestinal protozoa, RATCLIFFE, 616; Parasitic flagellates, LWOFF, 494; Soil protozoa, BRUNETTI, 101, FRANCÉ, 275, KOFFMANN, 446, ONO, 566, VARGA, 776; Rhizopoda, JEPPE, 410; Amoeba, CHALKLEY & DANIEL, 128, GELEI, 309, MAST & DOYLE, 521, SPEK & CHAMBERS, 724; Amoeba, etc., from hay infusions, BROHMER, 93; Marine amoeba, BUTTS, 108; *Acanthamoeba*, CAILLEAU, 110; *Ent. histolytica*, DESCHIENS, 222, 224, TSUCHIYA, 762; *Diffugia*, REUKAUF, 636; *Histomonas*, TYZZER, 763; Euglenoidida, LEFEVRE, 471; LACKEY, 459; *Euglena*, GOJDICS, 319; HALL, 332; Cryptomonadina, LOEFER, 483; Colacium, JOHNSON, 414; *Chilomonas*, MAST & PACE, 522; *Chlamydomonas*, MOEWUS, 534; *Haematococcus*, ELLIOTT, 259; *Noctiluca*, GROSS, 325; *Leishmania*, etc., ADLER, 4, ADLER & ASHBEL, 5; *L. donovani*, CHUNG, 149, YEN & CHUNG, 843; *L. infantum*, NATTAN-LARRIER & GRIMARD-RICHARD, 550; Modification of NNN for leishmania, NATTAN-LARRIER & GRIMARD-RICHARD, 549; Insect-flagellates, COLAS-BELCOUR, 158; BOXHALL, etc., 82; Trypanosomes, PACKCHANIAN, 574; Pathogenic trypanosomes, REICHENOW, 625; *Tryp. cruzi*, BONACCI, 72; *Tryp. gambiense*, ARNAUD, 27; *Tryp. rabino-witschi*, NATTAN-LARRIER, 548; Flagellates from termites, TRAGER, 760; Bodo, ROBERTSON, 639; Human trichomonads, HEGNER, 344; *Trichomonas*, DOBELL, 231, BISHOP, 66, CAILLEAU, 109; *Embadomonas*, BISHOP, 65; *Tricercomitus*, TRAGER, 759; Ciliata, COSMOVICI, 179, GARNJOBST, 287, GAUSE, 290, 292, HETHERINGTON, 359, SCHNEIDER, 670; *Paramacium*, GAUSE, etc., 293, BROWN, 97, HETHERINGTON, 360, LOEFER, 484, PHELPS, 600, SONNEBORN & LYNCH, 721; *Blepharisma*, MOORE, 537; *Balanitidium*, KIRSCHNER, 439, KNOWLES & DAS GUPTA, 443, NELSON, 554; Ruminant-ciliates, WESTPHAL, 816; Ophryoscolecidae, WESTPHAL, 817.

STRUCTURE.

Morphology: General Anatomy.

Mycetozoa.—General, MACBRIDE & MARTIN, 499; *Pelomyxa*, FORTNER, 274.

Rhizopoda.—General, SAEDELEER, 654; New species from Belgium, OYE, 571; *Gocceia* gen. n., VALKANOV, 768; *Ovramoeba*, JOHNSON, 415; Rhizopod-like *Euglena*, VALKANOV, 772; New *Entamoeba*, RODHAIN, 640; Aberrant *Entamoeba coli*, PERRY & BENSTED, 598; Dimensions and variation in *Entamoeba* cysts, GNEZDILOV, 318; Differentiation of *Entamoeba* cysts, ZERTCHANINOV, 848; Testacea, BAIER, 32, JUNG, 422, VALKANOV, 769, VOLZ, 786; Siliceous foraminifera, DEFLANDRE, 209; Foraminifera and Stromatoporoidea, HICKSON, 361; Trimorphism in Foraminifera, LE CALVEZ, 469.

Mastigophora.—Intestinal flagellates of muskrat and guinea-pig, BISHOP, 67; Intestinal flagellates of *Cryptocercus*, CLEVELAND, etc., 154; Silicoflagellata, DOBBERTHIEN, 230, MARSHALL, 519; Dinoflagellata, CHATTON & HOVASSE, 134, BIECHLER, 59, HOVASSE, 374; *Oodinium*, BROWN, 98; *Coccidinium* gen. n., CHATTON & BIECHLER, 133; Phytomonadida, FRITSCH, 279; Euglenoidida, CONRAD, 162; New *Euglena*, SOKOLOFF, 720; Rhizopod-like *Euglena*, VALKANOV, 772; New *Phacus*, SOKOLOFF, 720; *Haematococcus*, ELLIOTT, 259; New *Chlamydomonas*, SOKOLOFF, 720; *Eudorina*, AKEHURST, 7; *Colacium*, JOHNSON, 414; *Monas*, REYNOLDS, 637; *Leishm. canis*, CHODUKIN & SOFIEFF, 145; Various trypanosomes from Congo, SCHWETZ, 680; Atypical trypanosomes, HOARE, 365; Trypanosome of pigs, BOURGUIGNON & JUSSANT, 77, SCHWETZ, 685; Of "nutria," ARTIGAS & PACHECO, 28; Of *Citellus*, BECKER & ROUDABUSH, 47; *Karotomorphia* (= *Tetramastix*), TRAVIS, 761; New *Trichomonas*, RICHARDSON, 638, YAKIMOFF, 833; Of cormorant, DE MURO, 220; *Pentatrichomonas*, FRANCHINI, 277; *Trimitus* spp., *Microhropalodina*, DUBOSCQ & GRASSÉ, 240; *Cochlosoma*, KIMURA, 435.

Sporozoa.—New gregarines, SETNA & BHATIA, 706; New *Stenophora*, CHAKRAVARTY, 126; Coccidia of camel, IWANOFF-GOBZEM, 395, YAKIMOFF, 830; Of equidae, GOUSSEFF, 321; Of mink, KINGSCOTE, 437; Of Mustelidae, YAKIMOFF & GOUSSEFF, 838; Of fowl, YAKIMOFF, etc., 841; New *Eimeria* spp., YAKIMOFF, 834; *Eimeria* of rabbit, n. sp., YAKIMOFF, 835; Of beaver,

YAKIMOFF, 831; Of grouse, ALLEN, 9; Of hare, FONSECA, 271; Measurements of *Eimeria media*, CROOKS, 184; New *Isospora*, PINTO, 601, YAKIMOFF & GOUSSEFF, 837; *Isospora* of cat, KNOWLES & DAS GUPTA, 442; Of pig, BIESTER & MURRAY, 63, 64; Of sparrow, SKIDMORE, 716; *Globidium*, ENIGK, 261, HARANT & CAZAL, 335; Differentiation of equine piroplasms, HERRANZ, 356; Piroplasm of *Citellus*, BECKER & ROUDABUSH, 47; Bovine *Theileria* in Congo, SCHWETZ, 679; *Leucocytozoon anatis*, O'ROKE, 569; *Dactylosoma*, YERACE, 844; Toxoplasma of voles, FINDLAY & MIDDLETON, 267; *Plasmodium* in man and monkeys, TALIAFERRO & TALIAFERRO, 739; *P. ovale*, MÜHLENS, 542; Simian, BRUG, 99; *P. brasilianum*, TALIAFERRO & TALIAFERRO, 740; *P. inui*, SINTON, 714; *P.* in chimpanzee, SCHWETZ, 692; *P.* of birds, GIOVANNOLA, 311, 313, LOURIE, 487; Myxosporidia, KUDO, 454; New *Octospora*, JIROVEC, 412; Sarcosporidia in man, HERTIG, 358; In deer, YAKIMOFF & SOKOLOFF, 842; *Grahamella*, *Bartonella* and *Eperythrozoon*, SCHWETZ, 684, MCCLUSKIE & NIVEN, 500, SCHWETZ, 689, ADLER & ELLENBOGEN, 6, DONATIEN & LESTOQUARD, 236; *Erythrocytonucleophaga* gen. n., IVANIĆ, 390; *Entopolypoides* gen. n., MAYER, 524.

Ciliophora.—Various ciliates and suctoria, KAHL, 423, 424; Parasitic ciliates of sea-urchins, POWERS, 610; Various parasites of molluscs, RAABE, 611; *Cryptochilidium*, YAGU, 829; *Entorhipidium* and *Conchophthirus*, UYEMURA, 765; *Uronema*, PÁRDUZ, 582; New *Stylonethes*, GARNJOBST, 287; *Ochoterenzia* gen. n., CHAVARRIA, 139; *Conidophrys* gen. n., CHATTON & LWOFF, 136; *Gargarius* gen. n., CHATTON & LWOFF, 135; *Haptophrya*, BUSH, 107; New *Glucoma*, BERGHE, 51; *Pixicola*, PESHKOFF, 599; *Conchophthirus* spp., KIDDER, 432; *Metopus*, LUCAS, 493, KAHL, 425; New *Kahlia*, HORVÁTH, 373; Suctoria, REUKAUF, 635, ALLGÉN, 12, JAROCKI, 405; Tintinnids, OYE, 572, MARSHALL, 519; *Balantidium*, HEGNER, 345; Of chimpanzee, NELSON, 553; New *Nyctotherus*, WITCHERMAN, 820; Ophryoscolecidae, BRETSCHNEIDER, 92, DOGIEL, 232, WERTHEIM, 809; *Entodinium*, WERTHEIM, 813, 815; *Ophryoscolex*, WERTHEIM, 810.

Minute Structure: Special Anatomy.—*Trogloidyrella*, SWEZEY, 732.

Ectoplasm, Membranes, etc.—Flagellata, DEFLANDRE, 214; Dinoflagellata, BIECHLER, 58, 59, CHATTON & HOVASSE, 134; Skeleton of dinoflagellates, DEFLANDRE, 208; Ciliata, KLEIN, 441, GELEI, 305; Paramæcium, GELEI, 300, 304, 308, MACLENNAN & MURER, 505; Hypotricha, GELEI, 307; *Euplotes*, GELEI, 302; Trichocysts of flagellates, KRÜGER, 453; *Prorodon*, KRÜGER, 452; Skeleton of Ophryoscolecidae, WESTPHAL, 817; Capsules in *Plasmodium*, MALAMOS, 510.

Organelles of Locomotion.—Biciliate zoospores in Plasmodiophorales, LEDINGHAM, 470; Amoeba, GELEI, 301; Flagellata, DEFLANDRE, 214; *Peranema*, HALL, 333; Flagella of all sorts, DEFLANDRE, 207; Parabasal apparatus of flagellates, DUBOSCQ & GRASSÉ, 241, LWOFF, A. & M., 496, 497; In *Giardia*, VASILEW & KRASHENINNIKOW, 777; Ciliata, GELEI, 298, 305, GELEI, 305; Paramæcium, GELEI, 308, MACLENNAN & MURER, 505, SCHROEDER, 678; *Euplotes*, GELEI, 302; Neuromotor system in *Conchophthirus* spp., KIDDER, 432; In *Metopus*, LUCAS, 490.

Nucleus and Cytoplasm.—Feulgen nuclear reaction, SASSUCHIN, 662; Cell-structure: Amoeba, etc., WEEL, 803; CHALKLEY, 127; CHALKLEY & DANIEL, 128, McDANIELS, 501; Nucleus of *Gromia*, JEPPE, 409; *Cochliopodium* and *Cyathomonas*, VALKANOV, 768; Dinoflagellata, BIECHLER, 58; *Euglena*, GOJDICS, 319; *Opalina*, IVANIĆ, 391, VALKANOV, 771; "Spindle-shaped bodies" in *Opalina*, IVANIĆ, 391; Ciliata, CHATTON & TELLIER, 138, IVANIĆ, 392; *Amphileptus*, IVANIĆ, 389; Paramæcium, GELEI, 304, MACLENNAN & MURER, 505; *Blepharisma*, MOORE, 537; *Urostyla*, IVANIĆ, 388; Size of macronucleus in *Balantidium*, HEGNER, 345.

Nuclear Division.—Rhizopoda, IVANIĆ, 393; Amoeba, CHALKLEY, 127; *Euglyphz*, IVANIĆ, 387; *Euglenida*, LACKEY, 459; *Euglena*, GOJDICS, 319; *Peranema*, HALL, 333; *Cochliopodium* and *Cyathomonas*, VALKANOV, 768; *Opalina*, IVANIĆ, 391, VALKANOV, 771; Ciliata, KIDDER & DILLER, 433; *Conchophthirus* spp., KIDDER, 432; *Bursaria*, POLJANSKY, 608.

Various Internal Structures.—Intestinal flagellates of *Cryptocercus*, CLEVELAND, ETC., 154; Paramylon in *Euglena*, DEFLANDRE, 211; Stigma in *Lepidocinctis*, SOKOLOFF, 720; Fibrillar system in *Opalina*, VALKANOV, 770; *Paramaecium*, GELEI, 300, MACLENNAN & MURER, 505; *Haptophrya*, BUSH, 107; Nuclear reconstruction in ciliates, BAUER & GRANOWSKAJA, 38; Vacuome in *Vorticella*, FINLEY, 239; Glycogen inclusion in *Polyplastron*, MACLENNAN, 503; "Corps tannophiles" in *Balan-tidium*, PEREZ, 595.

Cysts, Spores.—Rhizopoda and Flagellata, HAUSMAN, 338; Testacea, SEBESTYÉN, 699; Cysts of *Embado-monas*, BISHOP, 65; Of *Giardia*, LAVIER, 468; Of termite flagellates, DUBOSCQ & GRASSÉ, 242; Of *Globidium*, HARANT & CAZAL, 335; Ciliata, SCHNEIDER, 670; *Urostyla*, IVANIĆ, 388; *Myxidium* spores, SCHÄFERNA & JIROVEC, 664.

REPRODUCTION AND LIFE-CYCLE.

Mycetozoa.—*Pelomyxa*, FORTNER, 274.

Rhizopoda.—Foraminifera, KOFOID, 447, LE CALVEZ, 469, MYERS, 544; Young foraminiferal shells, HENBEST, 352.

Mastigophora.—*Oodinium*, BROWN, 96; *Haematococcus*, ELLIOTT, 259; *Euglenida*, LACKEY, 459; *Colacium*, JOHNSON, 414; *Leishmania* of gecko in sandfly, PARROT, 585; *L.* of lizard in sandfly, PARROT, 586; *L. canis* in sandfly and culture, CHODUKIN & SOFIEFF, 145; *Tryp. cruzi*, DIAS, 226; *T. duttoni*, GALLIARD, 284; *T. iowensis*, ROUDABUSH & BECKER, 645; *T. gambiense*, PENSO, 594.

Sporozoa.—*Eimeria* of armadillo, CARINI, 116; Oocyst-production in *Eimeria*, BOUGHTON, 74; *Isospora* of pig, BIESTER & MURRAY, 63, 64; *Globidium*, ENIGK, 261; Haemogregarines of frog, VARGA, 775; *Cristal-lidophora* gen. n., DEHORNE, 219; New *Haemoproteus*, FROILANO DE MELLO & RAIMUNDO, 280; Asexual *Plasmodium* strain, HUFF & GAMBRELL, 383; Relation of size to reproduction in *Plasm. cathemerium*, BOYD & ALLEN,

83; *Plasmodium*, EATON, 254; *P.* in monkeys, KNOWLES & DAS GUPTA, 444; *P.* in canaries, SHAH, 708; *P. falciparum*, HINGST, 362; *P. brasilianum*, TALIAFERRO & TALIAFERRO, 740; *P. inui*, SINTON, 714; Parasite-rate in malaria, LOWE, 489; *Leucocytozoon* of ducks, O'ROKE, 569; *Erythrocyto-nucleophaga* gen. n., IVANIĆ, 390; *Entopolypoides* gen. n., MAYER, 524; *Myxidium giardi*, SCHÄFERNA & JIROVEC, 664.

Ciliophora.—*Chilodon*, IVANIĆ, 386; *Balan-tidium coli*, KNOWLES & DAS GUPTA, 443; *Nyctotherus cordiformis*, BOJEWA-PETRUSCHESKAJA, 71; *Busaria*, POLJANSKY, 608.

PHYSIOLOGY.

General.—*Euglena*, GOJDICS, 319; Effect of vectors upon biological properties of trypanosomes, BRUMPT, 100.

Movement, Contractility.—*Amoeba*, GELEI, 301, MAST & DOYLE, 521; Rate of locomotion in *Amoeba*, PITTS & MAST, 602; *Acanthamoeba*, CAILLEAU, 110; Foraminifera, SANDON, 660; Flagellata, DEFLANDRE, 214; *Peranema*, HALL, 333; Flagella of all sorts, DEFLANDRE, 207; Ciliata, GELEI, 298, 300, 303, 305, KITCHING, 440, MONOD, 535, SERFATY, 701; *Paramaecium*, BRAGG, 90, KAMADA, 428, KOEHLER, 445, SCHROEDER, 678; Hypotrichida, GELEI, 307; *Euplotes*, GELEI, 302; Locomotion in Ophryoscolecidae, BRETSCHNEIDER, 92.

Nutrition, Metabolism.—Ingestion of worms by ciliates, SWEZEY & ATCHLEY, 733; Respiration in ciliates, BAUER & GRANOWSKAJA, 38; Cellulose digestion in Ophryoscolecidae, WEINECK, 806; Enzymes of *Amoeba*, *Paramaecium*, etc., HAINES, 330; Role of polysaccharose, GIOVANNOLA, 310; Symbiotic algae in *Paramaecium*, GOLDBERG & MONOD, 320; *Amoeba*, MAST & DOYLE, 521; *Amoeba*, *Diffflugia*, OPITZ, 567; Flagellata, LWOFF & DUSI, 495; Parasitic flagellates, LWOFF, 494; *Chilomonas*, MAST & FACE, 522; Cryptomonadina, LOEFER, 483; *Noctiluca*, GROSS, 325; *Leishmania* in culture, ADLER & ASHBEL, 5; *Tryp. evansi*, KRIJGSMAN, 450, RANDALL, 614; *T. equiperdum*, REINER & SMYTHE, 629; *Plasmodium*, MOORE, 536; Ciliata, COSMOVICI, 177, 178,

LWOFF, 498; Holotrichida, GELEI, 308; *Paramaecium*, CHILD, 144, COLE, 159, GELEI, 300, 304, LEVIN & MAGAT, 477; *Blepharisma*, MOORE, 537; *Vorticella*, FINLEY, 269, MADEYSKI, 507; Ophryoscolecidae, WESTPHAL, 816, 817, BRETSCHNEIDER, 92.

Excretion.—Pulsation of contractile vacuole in cattle-ciliates, WERTHEIM, 812, 814; Contractile vacuoles in *Ostracodinium*, SZÉN, 735; Malarial pigment, ROMBY, 642; Parasitic flagellates, LWOFF, 494; Ciliata, COSMOVICI, 177, LWOFF, 498; *Blepharisma*, MOORE, 537; *Paramaecium*, CHILD, 144, GELEI, 299; *Euplotes*, KING, 435a.

Properties of Protoplasm.—Cell structure: Amoeba, etc., WAEL, 803; Mineral content of *Trichonympha*, MACLENNAN & MURER, 504; Phagocytosis of *Plasm. falciparum*, HUNG, 384; Enzymes of Amoeba, *Paramaecium*, HAINES, 330; Amoeba, PITTS & MAST, 602, CHALKLEY & DANIEL, 128, SPEK & CHAMBERS, 724; Amoeba, *Diffugia*, OPITZ, 567; Foraminifera, SANDON, 660; Flagellata, GAVAUDAN, 294; Ciliata, COSMOVICI, 177, 178, COSMOVICI, 178, GELEI, 305, KITCHING, 440; *Stentor*, HEILBRUNN, 351; Ophryoscolecidae, BRETSCHNEIDER, 92.

Nervous System.—*Euglena*, BROHMER, 94; Ciliata, KLEIN, 441, GELEI, 298, 303; *Paramaecium*, KOEHLER, 445; Hypotrichida, GELEI, 307.

Growth, Multiplication.—General discussion, DUMAS, 249; Rhizopoda, IVANIĆ, 393; Amoeba, CHALKLEY, 127; Marine amoeba, BUTTS, 108; *Euglypha*, IVANIĆ, 387; Foraminifera, LE CALVEZ, 469; Euglenida, LACKEY, 459; Euglena, GOJDICS, 319, HALL, 332, JIROVEC & VÁCHA, 413, MOEWUS, 533; *Chilomonas*, MAST & PACE, 522; *Noctiluca*, GROSS, 325; *Tryp. evansi*, KREJGSMAN, 450; Ciliata, BAUMEISTER, 40, CHATTON & TELLIER, 138, CALKINS, 111, GARNJOBST, 287, KIDDER & DILLER, 433; Holotrichida, GAUSE, 292; *Chilodon*, IVANIĆ, 386; *Paramaecium*, CHEJFEC, 140, GELEI, 308; DE GARIS, 217, 218, DILLER, 228, PHELPS, 600; *Paramaecium*-fragments, KOEHLER, 445; Hypotrichida, GELEI, 307; *Bursaria*, POLJANSKY, 608; *Euplotes*, COHEN, 157; *Vorticella*, MADEYSKI, 507.

Regeneration.—*Paramaecium*, CHEJFEC, 140; *Stentor*, HEILBRUNN, 351.

Degeneration.—Flagellata, GAVAUDAN, 294.

Vitality.—Revivification of cysts, HAUSMAN, 338; Experimental "individual immortality" in ciliates, BAUER & GRANOWSKAJA, 39; Soil protozoa, BRUNETTI, 101; Avian intestinal protozoa, RICHARDSON, 638; *Entamoeba histolytica*, ANDREWS, 19; Viability of *Entamoeba*, SPECTOR & BUKY, 723; Viability of parasitic ciliates in vitro, STRELKOW, etc., 728; Temperature limits of ruminant ciliates, WERTHEIM, 811; Lysis of coccidial oocysts, YAKIMOFF & GOUSSEFF, 839; *Euglypha*, IVANIĆ, 387; *Chlamydomonas*, MOEWUS, 534; *Leishmania* in host, GIRAUD, 315; *Tryp. rabino-witschi*, NATTAN-LARRIER, 548; *Plasmodium* sporozoites, ROSEBOOM & SHAH, 646; Ciliata, BAUMEISTER, 40, CALKINS, 111; *Paramaecium*, LUYET, 493; *Euplotes*, COHEN, 156.

Sexuality, Conjugation.—General, JENNINGS, 408, DUMAS, 249; Hybridization in malarial parasites, MISSIROLI & CORRADETTI, 532; *Conchophthirius*, lunar periodicity in conjugation, RAY & CHAKRAVERTY, 619; *Noctiluca*, GROSS, 325; *Chlamydomonas*, HARTMANN, 337; Ciliata, IVANIĆ, 392; *Amphileptus*, IVANIĆ, 389; *Paramaecium*, DE GARIS, 216, 217, 218, DILLER, 228, SONNEBORN & LYNCH, 721; *Balantidium* of chimpanzee, NELSON, 553; *Bursaria*, POLJANSKY, 608; *Euplotes*, COHEN, 156, 157.

Cyst-formation.—Revivification of cysts, HAUSMAN, 338; Soil protozoa, BRUNETTI, 101; Testacea, SEBESTYÉN, 699; Vampyrellidae, VALKANOV, 767; Flagellata, BURSA, 106; Euglenida, LACKEY, 459; Flagellates of termite, DUBOSCQ & GRASSÉ, 242; Ciliata, CALKINS, 111, GARNJOBST, 287, IVANIĆ, 392, SCHNEIDER, 670; *Colpoda*, THIMANN & BARKER, 752; *Chilodon*, IVANIĆ, 386; *Urostyla*, IVANIĆ, 388; *Bursaria*, POLJANSKY, 608.

Environmental Effects, Response to Stimuli.—Influence of various factors upon development of protozoa in infusions, STOLJAROW, 727; Effect of ultra-violet rays, COPEMAN, 166, 167;

Upon *Euglena*, JIROVEC, 411; Upon infusoria, ALPATOV & NASTIUKOVA, 14, 15; Upon division of *Paramecium*, ALPATOV & NASTIUKOVA, 13; Effect of illumination upon sporulation of *Plasmodium*, TALIAFERRO & TALIAFERRO, 741; *Amoeba*, CHALKLEY & DANIEL, 128, HOWLAND & BERNSTEIN, 380, SPEK & CHAMBERS, 724; *Entamoeba histolytica*, FAUST & KAGY, 265; Effect of low temperature upon *Ent. histolytica*, DESCHIENS, 223; Foraminifera, SANDON, 660; Flagellata, BURSA, 106, LWOFF & DUST, 495; Intestinal flagellates of *Cryptocercus*, CLEVELAND, ETC., 154; Dinoflagellata, OKADA, 565; *Euglena*, BROEMER, 94, HALL, 332; Cryptomonadina, LOEFER, 483; *Chilomonas*, MAST & PACE, 522; Action of mercury lamp rays upon trypanosomes, LEVADITI, ETC., 476; Effect of avitaminosis on trypanosome infection, FINE, 268; Explosion of trichocysts of flagellates, KRÜGER, 453; Photodynamic action of bile on *Giardia*, PLAVCHITCH, 603; Ciliata, CALKINS, 111, CHATTON & TELLIER, 137, COSMOVICI, 179, FONTAINE, 272, GAUSE, 291, KITCHING, 440, KLEIN, 441, HETHERINGTON, 359, LWOFF, 498, MONOD, 535, LEVIN & PIFFAULT, 479, SEREATY, 701, YOCOM, 845; Soil ciliates, HINO, 363; Galvanotaxis in ciliates, LUNTZ, 491; Colpoda, THIMANN & BARKER, 752; *Paramecium*, KING & BEAMS, 436, KAMADA, 428, BROWN, 97, KOEHLER, 445, LEVIN & MAGAT, 477, LEVIN & PIFFAULT, 478, 480, PHELPS, 600; Explosion of trichocysts in *Prorodon*, KRÜGER, 452; Influence of media on growth of *Paramecium* spp., GAUSE, ETC., 293; *Stentor*, HEIBRUNN, 350, 351; *Vorticella*, MADEYSKI, 507.

Effects of Reagents and Drugs.—*Amoeba*, CHALKLEY & DANIEL, 128, SPEK & CHAMBERS, 724; Marine amoeba, BUTTS, 108; pH and *Amoeba*, HOWLAND & BERNSTEIN, 380; *In vitro* action of drugs on *Ent. histolytica*, NOSINA, 563; Flagellata, GAVAUDAN, 294, LWOFF & DUST, 495; *Chilomonas*, MAST & PACE, 522; *Euglena*, HALL, 332; *Tryp. lewisi*, PERLA, 596; Drugs in rat-trypanosomiasis, CHRISTISON, 147; Drug-resistance in trypanosomes, JANCsó, N. & H., 403, BOURGUIGNON, 76, HOOF & HENRARD, 371, WALLACE, 793, YORKE, 846; Action of acriflavine on trypanosomes, HAWKING, 339;

Action of "Bayer 205" on trypanosomes, JANCsó & JANCsó, 404; Effect of chemicals upon human trichomonads, HEGNER, 344; Effect of antimalarial drugs, MOSHKOVSKI & BUROVA, 541; Effect of atebirin on malarial parasites, JAMES, 401; Atebrin in bird malaria, TATE & VINCENT, 746; Atebrin and sporozoites of avian *Plasmodium*, RUSSELL, 648; Quinine in bird-malaria, LOURIE, 486; Action of quinoleines upon bird malaria, BOVET, ETC., 81; Action of atebirin and plasmoquine upon *Plasm. falciparum*, MANSON-BAHR & WALTERS, 513; Effect of rhodoquine and quinacrine upon *P. falciparum*, SERGENT & VOGT, 703; *Plasmodium* of monkey, CHOPRA & GUPTA, 146; Action of "Viskojod" upon coccidial oocysts, YAKIMOFF, 836; Ciliata, CHILD, 143; Ciliata, CHATTON & TELLIER, 137, 138, COSMOVICI, 179, FONTAINE, 272, LWOFF, 498, MONOD, 535, SEREATY, 701, KITCHING, 440, KLEIN, 441, LEVIN & PIFFAULT, 479; Soil ciliates, HINO, 363; *Colpoda*, THIMANN & BARKER, 752; *Paramecium*, CHILD, 144, LEVIN & MAGAT, 497, LEVIN & PIFFAULT, 478, 480, LUYET, 493; *Stentor*, HEIBRUNN, 350, 351; *Vorticella*, FINLEY, 269.

(Immunity—vide under Parasitism.)

ETHOLOGY.

Bionomics; Ecology. — Adaptation from fresh water to marine in Ciliata, YOCOM, 845; Soil and humus, VOLZ, 787; Struggle for existence between ciliates, GAUSE, 288, 289, 290, 291; *Epistylis* associated with Crustacea, PEARSE, 591.

Habitats. — Plankton: Marine: HOVASSE, 375; Textbook, JOHNSTONE, SCOTT & CHADWICK, 417; Black Sea, LEPSI, 473; Kara sea, BERNSTEIN, 54; British Columbia, WAILES, 790; China, SCHODDUYN & LEROY, 674; Cultivation of plankton forms, PENN, 593; Flagellata as food for Clams, SMITH, 718; Foraminifera, EARLAND, 253; Dinoflagellata, BRAARUD, 89, CAMPBELL, 115, HOVASSE, 374, REDEKE, 620; Dinoflagellates from Gulf of Naples, ISSEL, 385; From California, TAI & SKOGSBERG, 737; From Pacific, CUPP, 186a, NIELSEN, 561; From North Sea, WULF, 828; From south of France, BIECHELER, 57;

Chrysomonadina, LUTHER, 492; Euglenoidida, LEFEVRE, 471; Silicoflagellates and Tintinnids from Gt. Barrier Reef, MARSHALL, 519; Ciliata from Black Sea, PASPALEWA-JELIASKOWA, 588; From S. Atlantic, HART, 336; From Baltic, REMANE, 632; Tintinnids, ALZAMORA, 16, OYE, 572.

Freshwater: GEIST, 297, HOPPÓWNA, 372, WIEMANN, 804; Westphalia, GRIEPENBERG, 323; Hungary, GEBHARDT, 295, 296; Alpine lakes, EMILIA, 260; Finland, JÄRNEFELT, 399, 400; Poland, RZÓSKA, 650, WAWRZYŃIAK, 799, 800; Lucerne, STEINMANN & SURBECK, 725; Germany, WEIMANN, 805; East African lakes, BEADLE, 41, 42; Alaska, WAILES, 789, 792; St. Joseph river, Indiana, DOLLEY, 234; Lakes of Japan, MÉNO, 764; Fauna of a mountain stream, LEPSI, 475; Pond life near Hitchen, PALMER, 580; Plankton from lake Montsalvens, ANDRÉ, 17; Cultivation of plankton forms, PENN, 593; Collecting plankton, WILLIAMS, 823; Rhizopods from the sub-alpine lakes of Belgium, OYE, 571; Testacea, SEBESTYÉN, 699; Flagellata, WILLIAMS, 822, AKEHURST, 7; From Lake Winnipeg, BAJKOS, 33; From Mexico, SOKOLOFF, 720; Dinoflagellata, OKADA, 535; From N. America, WAILES, 791; From India, SEWELL, 707; *Euglena*, Shantung, CHANG, 129; *Mallomonas*, CONRAD, 164; Infusoria, Nanking, WANG & NIE, 797; Tintinnids, Nanking, NIE, 560.

Aquatic: Marine: Rhizopoda, JEPES, 410; Foraminifera, SCHOTT, 676, SHUPACK, 710, SPÄCK, 722; Of the Malay Archipelago, HOFER, 367; From Greenland, THORSON, 756; From Ross Sea, WARTHIN, 798; Of Cuba, BERMÚDEZ, 53.

Brackish: Poland, NAMYSŁOWSKI, 545; Tortugas, PEARSE, 592; Foraminifera, Venezuela, HEDBERG, 343; Ciliata, GARNJOBT, 287; From California, KIRBY, 438.

Freshwater: Pond life near Hitchen, PALMER, 580; Fauna of a puddle, SCHROEDER, 677; Of a mountain stream, LEPSI, 475; Westphalia, GRIEPENBURG, 323; Poland, NAMYSŁOWSKI, 545, WAWRZYŃIAK, 801; Hungary, GEBHARDT, 295, 296, STILLER, 726; Warm baths at Badgastein, STROUHAL, 729; East African lakes, BEADLE, 41, 42; St.

Joseph river, Indiana, DOLLEY, 234; Rhizopoda, WENNINGER, 807; From Nanking, WANG & NIE, 796; Testacea from Alpine lakes, EMILIA, 260; From moorland pools, BAUER, 32, JUNG, 422; Vampyrellidae, VALKANOV, 767; Flagellata, AKEHURST, 7; From Mexico, SOKOLOFF, 720; Euglenida, LACKEY, 460; *Euglena*, Shantung, CHANG, 129; Ciliates of Lake Baikal, BERG, 50; From Nanking, WANG & NIE, 797.

Soil: Jerusalem soil, BODENHEIMER & REICH, 68; Humus, VOLZ, 787.

Miscellaneous: Rhizopods from sub-alpine region of Belgium, OYE, 571; Flagellata and Rhizopoda from melted snow, SCHERFFEL, 665.

Symbiosis.—Intestinal flagellates of *Cryptocercus*, CLEVELAND, ETC., 154; Chlorellae and *Paramaecium*, GOLDBERG & MONOD, 320, LOEFFER, 484; Rhodobacteria and *Spirostomum*, MANGENOT, 512.

Parasitism: General.—*Transmission, infectivity*: *Entamoeba histolytica*, ANDREWS, 19; Dysentery amoebae in water, HEGNER, 348; Transmission of *Histomonas*, TYZZER, 763; Of intestinal flagellates of *Cryptocercus*, CLEVELAND, ETC., 154; Transmission of Mediterranean leishmaniasis, PARROT, 587; *Leishmania* of gecko, PARROT, 585, 586; Of Kala-Azar by ticks, GRAUD, 314; Through naso-oral secretions, FORKNER & ZIA, 273; Of trypanosomiasis and leishmaniasis through flies, THOMSON & LAMBORN, 755; Influence of vectors upon the properties of trypanosomes, BRUMPT, 100; Trypanosomes in tsetse-flies, WHITNALL, 819; Infection rate of tsetse-flies in Congo, HOOFF & HENNRAD, 370; *Tryp. congolense* passaged through rabbits, NICOLLE, 558; Infectivity of *T. congolense* to guinea-pigs, SACEGHEM, 653, LAUNOY, 466, LAUNOY & VALENZA, 467; Mechanical transmission of trypanosomes, DUKE, ETC., 248; Transmissibility of trypanosomes by tsetse, DUKE, 243, 244, 247; Latent *Tryp. brucei* in rat, CORSON, 174, 176; Non-infectivity of *T. rhodesiense* to rats per os, CORSON, 173; Infectivity of *T. rhodesiense* after relapse, CORSON, 169; *T. rhodesiense* in C.S.F. of antelopes, CORSON, 170; *T. gambiense*, cyclical transmission of resistant strains, HOOFF & HENNRAD, 371; Failure of hereditary

transmission, BRANDEN, 91; Transmission of *T. evansi* by tsetse flies, KUNERT & KRAUSE, 456, 457; Virulence of *T. cruzi*, CHAGAS, 124; Transmission of *T. cruzi*, DIAS, 226, HOARE, 366; By ticks, DUNN, 250; Chagas Disease in Guatemala, REICHENOW, 626; Prevention of regressive infection in mosquitoes, MATHIS & BAFFET, 523; Infections with single coccidian oocyst, BECKER, 43; Duration of infection and number of oocysts in *Eimeria* of rat, HALL, 331; Incidence of *Isoospora* in sparrow, SKIDMORE, 716; Haemogregarines in tortoise, VARGA, 774; Congenital transmission of equine piroplasm, DONATIEN, ETC., 237; Piroplasmosis of zebu, YAKIMOFF, ETC., 840; Transmission of *Grahamella*, VASSILIADIS, 779; Of anaplasmosis, REES, 623; Of *Aegyptianella*, KOMAROV, 448; Bovine *Bartonella*, DONATIEN & LESTOQUARD, 236; Susceptibility of mosquitoes to avian malaria infection, TATE & VINCENT, 745, SHAH, ETC., 709, ROUBAUD & MEZGER, 644; To *Plasmodium*, BOYD & STRATMAN-THOMAS, 85; To M.T. parasites, SIMANIN, 712; *Plasmodium* infections in Indian mosquitoes, IYENGAR, 397; In Mysore, NURSING, ETC., 564; In Travancore, IYENGAR, 398; Duration of malaria-infection in mosquitoes, BOYD & STRATMAN-THOMAS, 84; Monkey malaria, MULLIGAN, 543; Duration of bird-malaria, MANWELL, 514; Susceptibility of Caucasians to malaria, BOYD & STRATMAN-THOMAS, 86; Method of infection of ruminants by ciliates, STRELKOW, ETC., 728.

Experimental infection: Amoebiasis of dogs, FAUST & KAGY, 264; *Entamoeba* to reptiles, RATCLIFFE & GEIMAN, 617; *E. histolytica* to pig, FRYE & MELENEY, 281; From monkey to man, KNOWLES & DAS GUPTA, 443; Pathogenicity of *E. histolytica* to kittens, FRYE & MELENEY, 282; *Leishmania* to monkeys, NAPIER, ETC., 547; *L. tropica* in mice, MAYER, ETC., 525; In guinea-pig, NINNI & TRAMONTANO, 562; Material and methods in trypanosomiasis, DUKE, 246; Pathogenic trypanosomes to wild mammals, Uganda, CARMICHAEL, 117; *Tryp. cruzi*, REICHENOW, 626; To man, CHAGAS, 123, 125; To various animals, WOOD, 825, 826; Transmission by *Era-tyrus*, DUNN, 251; *T. rhodesiense* into C.S.F. of antelope, CORSON, 168; Infection of rats, CORSON, 171; To

guinea-pigs, CORSON, 175; *T. brucei* to *Peromyscus*, PACKCHANIAN, 573; *T. congolense* in mice, BROWNING, ETC., 98; To rabbit, NICOLLE, 577; *T. annamense* in cat, LAUNOY, 464; Avian intestinal protozoa to chickens, RICHARDSON, 638; Trichomonads to laboratory animals, RAKOFF, 613; To cattle, WITTE, 824; To amphibia, BISHOP, 66; Cross-infections with trichomonads of man and macaques, DOBELL, 231, HEGNER, 347, 349; Pigeon trichomonad to mice, Bos, 73; Rabbit coccidia to chickens, CROOKS, 184; *Bartonella* in murines, SCHWETZ, 683; To guinea-pigs, SCHWETZ, 688; Production of bird malaria by injection of sporozoites, ROSEBOOM & SHAH, 646; Monkey malaria to other animals, KHAZAN CHAND & HARBHAGWAN, 431; Human malaria to monkeys, TALIAFERRO & TALIAFERRO, 739; Malaria through mosquito-bites, CIUCA, ETC., 150; Inoculation of *Plasmodium* sporozoites, BOYD & STRATMAN-THOMAS, 87; Cross-infections with *Balantidium* spp., NELSON, 554; *B.* of monkey to man (negative), KNOWLES & DAS GUPTA, 443; *B. coli* in rat, GABALDON, 283; *B.* of chimpanzee to rat, ATCHLEY, 29.

"Carriers": Amoebiasis, BUNDESEN, 104, LEIVA, 472; Intestinal protozoa in Italian children, DE MURO, 221; *Tryp. annamense* in cat, LAUNOY, 465.

Effect upon host: *Entamoeba* in reptiles, RATCLIFFE & GEIMAN, 617; In snakes, RODHAIN & HOOF, 641; Histopathology of amoebiasis, MELENEY & FRYE, 527; Balantidiosis, RATCLIFFE, 615; Canine amoebiasis, FAUST & KAGY, 264; Amoebiasis and Balantidiosis, CALLENDER, 112; *Oodinium* infection of fish, BROWN, 96; Cutaneous canine leishmaniasis, SINTON & SHORT, 715; *Leishm. tropica* in mice, MAYER, ETC., 525; Kala Azar, distribution of *Leishmania* in body, DE, 205; Trypanosomes in splenectomized rodents, SCHWETZ, 686, 687; Trypanosomiasis and sulphocyanide in blood, KUNERT & KUNZMANN, 458; Mixed infections with trypanosomes and spirilla, GRILLO & KRUMEICH, 324; Blood changes in *Tryp. equiperdum* infection, POINDEXTER, 607; Pathogenic trypanosomes in wild mammals, Uganda, CARMICHAEL, 117; Pig trypanosomiasis, Congo, SCHWETZ, 685;

Tryp. brucei in Deer-Mice, PACKCHAMIAN, 573; In rabbit, NICOLLE, 559; *T. evansi*, RANDALL, 614; Virulent *T. duttoni*, GALLIARD, 284; *T. rhodesiense* infection in rats, CORSON, 171; *T. congolense* in rabbit, NICOLLE, 557; In guinea-pig, VALENZA, 766; *T. cruzi*, REICHENOW, 626, VILLELA & DIAS, 783; In various mammals, WOOD, 825; In dog, VILLELA & DIAS, 784; Generalized trichomonad infection in bird, FRANCHINI, 276, 277; *Trichomonas* in cattle, WITTE, 824; In blood of a rodent, BERGHE, 52; Localization of pigeon *Trichomonas*, CAUTHEN, 121; Pigeon trichomonad in mice, BOS, 73; Coccidiosis of pig, BIESTER & MURRAY, 64; Of man, GUPTA, 202; Haemogregarines of frog, VARGA 775; *Leucocytozoon* infection of ducks, O'ROKE, 569; *Bartonella* and *Eperythrozoon*, McCLUSKIE & NIVEN, 500; Toxoplasmosis in voles, FINDLAY & MIDDLETON, 267; *Erythronucleophaga* gen. n., IVANIĆ, 390; Malaria, SCHILLING, 667; Untreated human, LOWE, 488; Simian, TALIAFERRO & TALIAFERRO, 740; Relation of parasite count to course of malaria, LOWE, 489; Susceptibility of erythrocytes to *Plasmodium*, EATON, 254; Cattle ciliates, WERTHEIM, 809, WESTPHAL, 817.

Immunity, Serology: General review, TALIAFERRO, 738; Action of serum upon an amoeba, REICH, 624; Complement fixation in amoebiasis, TSUCHIYA, 762; Action of rabbit serum upon *Bodo*, ROBERTSON, 639; *Leishmania* in monkey, NAPIER, ETC., 547; Trypanocidal action of human serum, CULBERTSON, 185; Upon *Tryp. rhodesiense*, CORSON, 175; Antigenic properties of trypanosomes, BOVET, 80; Complement deviation in trypanosomiasis, ZOTTNER, 851; Serodiagnosis of *Tryp. hippicum*, TALIAFERRO & TALIAFERRO, 743; Immunization against trypanosomes, SACEGHEM, 651; SCHILLING, 666, 668; *Tryp. equiperdum*, RAFFEL, 612; Thermoprecipitation in *T. equiperdum* infection, POINDEXTER, 606; *Tryp. gambiense* in monkeys, HOOF, 369; Coccidiosis, BECKER, 45; Resistance to coccidiosis, ANDREWS, 21; In chickens, HERRICK, 357; *Eimeria* of rat, HALL, 331; Malaria, CIUCA, ETC., 151, SCHILLING, 667; Immunization in malaria, CIUCA, ETC., 150; Tolerance to malaria, BOYD, ETC., 88; Monkey malaria,

TALIAFERRO & TALIAFERRO, 739, 742, KRISHNAN, ETC., 451; Vaccination against *Plasm. relictum*, SERGENT, ETC., 705; Immunity in avian malaria, MANWELL, 517; Premunition, SERGENT, ETC., 704; Electric charge and phagocytosis in avian malaria, FINDLAY & BROWN, 266.

(Protozoa in relation to Disease—vide under **Economics**.)

Parasitism: **Hosts.** — **General**: Domesticated animals, coccidia, BECKER 46.

Distribution of malarial parasites among various animals, CHRISTOPHERS 148.

Trypanosomes from various animals, Congo, SCHWETZ 680.

Man: Man, submaxillary gland (Germany): *Amoeba* [*Entamoeba*?] *submaxillaris* sp. n. (Rhizop. Amoeb.), MALOWITSCHKO & PUPENKO 511.

Other Mammalia: HAMERTON 334.

Chimpanzee, intestinal protozoa, HEGNER 346.

Malaria in chimpanzee, SCHWETZ 692.

Domestic animals (Sardinia): Various parasitic protozoa, CERRUTI 122.

Pig: intestinal protozoa (U.S.A.), FRYE & MELENEY 281.

Wild sheep, elk and yak, ciliate fauna (Ophryoscolecidae), DOGIEL 232.

Murines, incidence of *Grahamella*, *Bartonella* and *Eperythrozoon* (Congo), SCHWETZ 682, 683.

Rats (U.S.A.): incidence of protozoa, ANDREWS 22.

Arvicola amphibius (Russia): List of endoparasites, SASSUCHIN, ETC. 663.

Ateles geoffroyi, intestine (Panama): *Balantidium wenrichi* sp. n. (Cil. Heterotr.), HEGNER 345.

Bettongia lesueurii grayi (Marsupial), muscles (W. Australia): *Sarcocystis bettongiae* sp. n. (Spor. Sarcospor.), BOURNE 78.

Camelus bactrianus, intestine (U.S.A., imported): *Balantidium cameli* sp. n. (Cil. Heterotr.), HEGNER 345.

Castor fiber, intestine (Russia): *Eimeria spretni* sp. n. (Spor. Coccid.), YAKIMOFF 831.

Cattle [*Bos taurus*], (1) stomach (Yugoslavia): *Entodinium longinucleatum* f. n. *costatum*, *amphicostatum* (Cil. Oligotr.), WERTHEIM 815; (2) blood (Palestine): *Eperythrozoon wenyoni* sp. n., *Bartonella sergenti* sp. n. (Form. incert. sed.), ADLER & ELLENBOGEN 6; (3) blood (Algeria, from France): *Bartonella bovis* sp. n. (Form. incert. sed.), DONATIEN & LESTOQUARD 236; (4) (and zebu), intestine (Caucasus): *Eimeria zurnabadensis*, *E. azerbaijandensis* spp. n. (Spor. Coccid.), YAKIMOFF [ref. in Z.R. vol. lxx (Protozoa): 821].

Cat, intestine (India): *Isospora* (Spor. Coccid.), KNOWLES & DAS GUPTA 442.

Cebus variegatus, intestine (Brazil): *Balantidium cunhamuni* sp. n. (Cil. Heterotr.), HEGNER 345.

Citellus tridecemlineatus, blood (U.S.A.): *Trypanosoma iowensis* sp. n. (Mastig. Protomon.), *Babesia citelli* sp. n. (Spor. Haemospor.), BECKER & ROUDABUSH 47.

C. franklini, blood (U.S.A.): *Trypanosoma hixsoni* sp. n. (Mastig. Protomon.), BECKER & ROUDABUSH 47.

Didelphis marsupialis etensis, intestine (Panama): *Balantidium marsupialis* sp. n. (Cil. Heterotr.), HEGNER 345.

Equines, intestine (Russia): *Eimeria solipedum*, *E. unguata* spp. n. (Spor. Coccid.), GOUSSEFF 321.

Equus caballus, intestine (Mexico): *Ochoterenaiia appendiculata* gen. n. sp. n. (Cil. Oligotr.), CHAVARRIA 139.

Fiber (= *Ondatra*) *zibethica*, intestine (England): *Trichomonas* sp., *Giardia* sp., *Chilomastix* sp., *Retortamonas* sp. (Mastig. Protomon.), BISHOP 67.

Guinea-pig [*Cavia porcellus*], caecum (England): *Retortamonas* sp. (Mastig. Protomon.), BISHOP 67.

Lama glama, faeces (Russia): *Eimeria peruviana* sp. n. (Spor. Coccid.), YAKIMOFF 834.

Lemmus lemmus, intestine (Finland): *Giardia microti* (Mastig. Diplomon.), KOPPERI 449.

Macaca irus, blood (Germany ex Java): *Entopoliypoides macaci* gen. n., sp. n. (Sporoz., near Piroplasm.), MAYER 524.

M. cynomolgus, blood (Dutch E. Indies): *Plasmodium knowlesi* var. n. *sintoni* (Spor. Haemospor.), BRUG 99.

M. philippinensis, intestine (Philippines): *Balantidium philippinensis* sp. n. (Cil. Heterotr.), HEGNER 345.

Microtus agrestis, brain (England): *Toxoplasma microti* sp. n. (Spor. incert. sed.), FINDLAY & MIDDLETON 267.

M. brandti, blood (East. Siberia): *Bartonella* sp. (Form. incert. sedis), BEKRENEVA 48.

Muridae, blood (Congo and Egypt): *Eperythrozoon* and *Bartonella* (Form. incert. sed.), SCHWETZ 689; VASSILIADIS 778.

Mustela vison, intestine (Canada): *Eimeria mustelae* sp. n. (Spor. Coccid.), KINGSCOTE 437.

Myocastor coypus, blood (Brazil): *Trypanosoma myocastori* sp. n. (Mastig. Protomon.), ARTIGAS & PACHECO 28.

Orias canna, faeces (Russia): *Eimeria trifitti* sp. n. (Spor. Coccid.), YAKIMOFF 834.

Pig [*Sus scrofa*], intestine (U.S.A.): *Isospora suis* sp. n. (Spor. Coccid.), BIESTER & MURRAY 63, 64.

Rabbit, faeces (Russia): *Eimeria exigua* sp. n. (Spor. Coccid.), YAKIMOFF 835.

Rattus r. frugivorus, multiple infection with *Bartonella*, *Eperythrozoon* and *Grahamella* (Congo), SCHWETZ 693.

Rupicapra rupicapra (chamois), stomach (Yugoslavia): *Ophryoscolex caudatus* f. n. *rupicaprae* (Cil. Oligotr.), WERTHEIM 810.

Sheep [*Ovis aries* ?], blood (S. Africa): *Eperythrozoon ovis* sp. n. (Form. incert. sed.), NEITZ, ALEXANDER & DU TOIT 552.

Silvilagus minensis, intestine (Brazil): *Eimeria paulistana* sp. n. (Spor. Coccid.), FONSECA 271.

Tarandus rangifer and *Cervus canadensis asiaticus*, muscles (Russia): *Sarcocystis grüneri* sp. n. (Spor. Sarcospor.), YAKIMOFF & SOKOLOFF 842.

Vesperugo kuhlii, blood (Italy): *Trypanosoma vespertilionis* (Mastig. Protomon.), TADDIA 736.

Aves: Birds, various: intestinal protozoa (U.S.A.), RICHARDSON 638.

Plasmodium in Italian birds, GIOVANNOLA 311.

Anas platyrhynchos and *Cairina moschata*, intestine (California): *Cochlosoma rostratum* sp. n. (Mastig. Protomon.), KIMURA 435.

Bonasa umbellus, caeca (N. America): *Eimeria angusta*, *E. bonasae* spp. n. (Spor. Coccid.), ALLEN 9.

Canachites canadensis, caeca (N. America): *Eimeria angusta* sp. n. (Spor. Coccid.), ALLEN 9.

Corvus brachyrhynchos, intestine (U.S.A.): *Trichomonas corvus* sp. n. (Mastig. Protomon.), RICHARDSON 638.

[*Gallus gallus*], buccal cavity (Caucasus): *Trichomonas halli* sp. n. (Mastig. Protomon.), YAKIMOFF 833.

Lagopus lagopus, caeca (N. America): *Eimeria bonasae* sp. n. (Spor. Coccid.), ALLEN 9.

Leptocema zeylanica, blood (India): *Haemoproterus raymundi* sp. n. (Spor. Haemospor.), FRIOLANO DE MELLO & RAIMUNDO 280.

Petrochelidon l. lunifrons, blood (U.S.A.): *Plasmodium polare* sp. n. (Spor. Haemospor.), MANWELL 516.

Phalacrocorax africanus africanus, intestine (Victoria Nyanza): *Trichomonas hoarei* sp. n. (Mastig. Protomon.), DE MURO 220.

Struthio camelus, intestine (U.S.A., imported): *Balantidium struthionis* (Cil. Heterotr.), HEGNER 345.

Reptilia: Reptiles (various), intestine (U.S.A.: Zool. Gard.): *Entamoeba* sp., RATCLIFFE & GEIMAN 618.

Lizards, various haematozoa, Congo, SCHWETZ 681.

Bothrops jararaca, intestine (Brazil): *Isospora lenti* sp. n. (Spor. Coccid.), PINTO 601.

Elaphe quatuorlineata sauromates, intestine (Russia): *Isospora phisalix* sp. n. (Spor. Coccid.), YAKIMOFF & GOUSEFF 837.

Python sebae and *Rachidelus brazili*, intestine (Antwerp: Zool. Gard.): *Entamoeba invadens* sp. n. (Rhizop. Amoeb.), ROPHAÏN 640,

Tropidonotus riperrinus, intestine (France): *Globidium navillei* sp. n. (Spor. incert. sed.), HARANT & CAZAL 335.

Amphibia: Anura (*Rana temporaria*, *R. arvalis*, *R. esculenta*, *Bombinator igneus*, *Bufo vulgaris*, *B. viridis*, *Hyla arborea*), (Germany): intestinal protozoa, incidence, PAUL 589.

Rana esculenta, blood (Serbia): *Erythrocytonucleophaga ranae* gen. n., sp. n. (Sporoz.), IVANIĆ 390.

R. spinosa, rectum (China): *Nyctotherus cheni* sp. n. (Cil. Heterotr.), WITCHERMAN 820.

Pisces: Fishes, various (Neva, Russia): parasitic protozoa, DOGIEL & PETRUSCHEWSKY 233.

Abramis brama, skin (Neva, Russia): *Henneguya cutanea* sp. n. (Spor. Myxospor.), DOGIEL & PETRUSCHEWSKY 233.

Aplodinotus grunniens, gall bladder (U.S.A.): *Myxidium aplodinoti* sp. n. (Spor. Myxospor.), KUDO 454.

Campostoma anomalum, integument (U.S.A.): *Henneguya crassicauda* sp. n. (Spor. Myxospor.), KUDO 454.

Carpiodes carpio, integument (U.S.A.): *Myxobolus bellus* sp. n. (Spor. Myxospor.), KUDO 454.

C. velifer, muscles (U.S.A.): *Myxobolus obliquus* sp. n. (Spor. Myxospor.), KUDO 454.

Catostomus commersonii, integument (U.S.A.): *Myxosoma bibullatum* sp. n. (Spor. Myxospor.), KUDO 454.

Oliola vigilax, gills (U.S.A.): *Myxobolus angustus* sp. n. (Spor. Myxospor.), KUDO 454.

Dentex vulgaris, liver (Adriatic sea): *Octosporea macharii* sp. n. (Spor. Microspor.), JIROVEC 412.

Ericymba buccata, liver (U.S.A.): *Myxosoma grandis* sp. n. (Spor. Myxospor.), KUDO 454.

Hybopsis kentuckiensis, connective tissue (U.S.A.): *Myxobolus squamosus* sp. n. (Spor. Myxospor.), KUDO 454.

Ictiobus bubalus, integument (U.S.A.): *Myxobolus ovatus* sp. n. (Spor. Myxospor.), KUDO 454,

Lucioperca lucioperca (Neva, Russia): *Myxobolus luciopercae* sp. n. (Spor. Myxospor.), DOGIEL & PETRUSCHEWSKY 233.

Moxostoma anisurum, integument (U.S.A.): *Myxobolus congesticius*, *M. gravidus* spp. n. (Spor. Myxospor.), KUDO 454.

M. aureolum, integument (U.S.A.): *Myxobolus vastus* sp. n. (Spor. Myxospor.), KUDO 454.

Notropis blennioides, connective tissue (U.S.A.): *Henneguya clavicauda* sp. n., *Myxobolus compressus* sp. n. (Spor. Myxospor.), KUDO 454.

N. cornutus, connective tissue (U.S.A.): *Myxosoma robustum* sp. n. (Spor. Myxospor.), KUDO 454.

N. whipplii, muscles (U.S.A.): *Myxobolus teres* sp. n. (Spor. Myxospor.), KUDO 454.

Percopsis guttatus, integument (U.S.A.): *Myxosoma procerum* sp. n. (Spor. Myxospor.), KUDO 454.

Pimephales notatus, integument (U.S.A.): *Myxobolus mutabilis* sp. n., *M. nodosus* sp. n. (Spor. Myxospor.), KUDO 454.

Insecta: *Calotermes flavicollis*, intestine (France): *Opisthomitus avicularis* gen. n., sp. n. (Mastig. Protomon.), DUBOSCQ & GRASSE 240.

Cryptocercus punctulatus, gut (U.S.A.): *Barbulanympha laurabuda*, *B. ufakula*, *B. estaboga*, *B. coahoma* gen. n., spp. n.; *Rhynchonympha tarda* gen. n., sp. n.; *Idionympha perissa* gen. n., sp. n.; *Trichonympha grandis*, *T. acuta*, *T. okolona*, *T. algoa*, *T. lata*, *T. chula*, *T. parva* spp. n.; *Eucomonympha imla* gen. n., sp. n.; *Macrospironympha xylopletha* gen. n., sp. n.; *Leptospiro-nympha eupora*, *L. rudis*, *L. wachula* gen. n., spp. n.; *Prolophomonas tocopola* gen. n., sp. n.; *Saccinobaculus amblo-azostylus*, *S. dorozostylus*, *S. minor* gen. n., spp. n.; *Hexamita cryptocerci* sp. n.; *Monocercomonoides globus* sp. n. (Mastigoph. Zoomastig.), CLEVELAND, ETC. 154.

Oligoneura rhenana (Ephemeridae), body cavity (France): *Ophryoglena* sp. (Cil. Holotrich.), CODREANU 155.

Sitona spp. (England): Microsporidia, JACKSON 398.

Myriapoda: *Diplopoda* sp., gut (India): *Stenophora ellipsoidi* sp. n. (Spor. Gregar.), CHAKRAVARTY 126.

Crustacea: Crustacea (minute forms): various parasitic protozoa, REUKAUF 634.

Copilia vitrea, intestine (Mediterranean sea): *Monocystis copiliae* sp. n. (Spor. Gregarin.), ROSE 643.

Corophium acherusicum (and other amphipods and isopods), secretory hairs (France).—*Conidophrys pilisuctor* gen. n., sp. n. (Ciliata Holotr.), CHATTON & LWOFF 136.

Parapeneopsis sculptilis, intestine (Indian ocean): *Hirmocystis* (?) *parapeneopsisi* sp. n., *Protomagalhaensia* (?) *attenuata* sp. n. (Spor. Gregar.), SETNA & BHATIA 706.

Echinodermata: *Anthocardius crassispina*, gut (Japan: Pacific): *Cryptochilidium sigmoides*, *C. minor* spp. n. (Cil. Holotr.), YAGI 829; *A. crassispina*, *Pseudocentrotus depressus*, *Strongylocentrotus pulcherrimus*, *S. intermedius*, intestine (Coasts of Japan): *Entorhipidium fukuii* sp. n., *Conchophthirus striatus* sp. n. (Cil. Holotr.), UYEMURA 765.

Diadema setosum (Echinoid), intestine (Bermuda): *Metopus rotundus* sp. n. (Cil. Heterotr.), LUCAS 490.

Glyptocidaris crenularis, intestine (Coasts of Japan): *Entorhipidium fukuii* sp. n. (Cil. Holotr.), UYEMURA 765.

Mespilia globulus, intestine (Coasts of Japan): *Conchophthirus striatus* sp. n. (Cil. Holotr.), UYEMURA 765.

Mollusca: *Bithynia tentaculata*, tentacles and gills (Poland): *Heterocinetia krzysiki* sp. n. (Suctorior), JAROCKI 405.

Elliptio complanatus, mantle cavity (U.S.A.): *Conchophthirus magna* sp. n. (Cil. Heterotr.), KIDDER 432.

Limnaeidae (*Radix ovata*, *R. auricularia*, *Stagnicola palustris*), external surface (Poland): *Heterocinetia chattoni* sp. n. (Suctorior), JAROCKI 405.

Mytilus edulis, gills (1) (France): *Gargarius gargarius* gen. n., sp. n. (Cil. Holotr.), CHATTON & LWOFF 135. (2) (Poland): *Hypocomina carinata* sp. n. (Cil. Holotr.), RAABE 611.

Planorbis sp. and *Physopsis* sp., eggs (Congo): *Glaucoma paedophthora* sp. n. (Cil. Holotr.), BERGHE 51.

Nemathelminthes: *Spirina parasitifera*, integument (Baltic Sea): *Thecacineta spirinae* sp. n., *Paracineta scanica* sp. n. (Suctoria), ALLGÉN 12.

Protozoa: Various hyperparasites, SASSUCHIN 661.

Chilomastix intestinalis: *Sphaerita chilomastix* sp. n. (Chitridiaceae), CUNHA & MUNIZ 186.

Dinoflagellates (*Glenodinium sociale* and *Peridinium* sp.) (France): *Coccolodinium legeri*, *C. duboscqui* gen. n., spp. n. (Mastig. Dinoflag.), CHATTON & BIECHELER 133.

Spirostomum teres: Rhodobacteria, MANGENOT 512.

Volvox, surface of colony (Mexico): *Euglena parasitica* sp. n. (Mastig. Euglen.), SOKOLOFF 720.

Plantae: *Zostera marina* (Atlantic coast): *Labyrinthula*-like organism (Mycetozoa), RENN 633.

GENETICS.

General, JENNINGS, 408.

Heredity.—*Euglena*, MOEWUS, 533; *Chlamydomonas*, HARTMANN, 337; *Paramaecium*, DE GARIS, 216, 217, 218, SONNEBOEN & LYNCH, 721; *Euplotes*, COHEN, 157.

Variation, Mutation.—"Dauermodifikationen" and mutations, JOLLOS, 418, MOEWUS, 534; Physiological races in Mycetozoa, SKUPIENSKI, 717; *Entamoeba* cysts, GNEZDILOV, 318, ZERCHANINOV, 848; Biometrics of Foraminifera, SCHMID, 669; Atypical trypanosomes, HOARE, 365; Races of *Retortamonas*, HOGUE, 368; *Euglena*, JIROVEC & VÁCHA, 413, MOEWUS, 533; *Chlamydomonas*, HARTMANN, 337; *Balantidium*, HEGNER, 345; *Euplotes*, COHEN, 156; *Entodinium*, POLJANSKY & STRELKOW, 669.

Phylogeny, Evolution.—Evolution from marine to freshwater habitat, PEARSE, 592; Origin of Radiolaria from Peridinians, CHATTON, 132; Flagellata and Radiolaria, HOVASSE, 376; Phytodinozoa, connecting Dinoflagellates and Sporozoa, CHATTON &

BIECHELER, 133; Flagellate origin of spermatozoa, CHATTON, 131, DUBOSCQ & GRASSÉ, 241; Evolution of Flagellates, VRIES, 788; *Euglena*, JIROVEC & VÁCHA, 413; *Noctiluca*, GROSS, 325; Affinities of *Globidium*, HARANT & CAZAL, 335; Ciliata, LEPSI, 474; Struggle for existence in ciliates, GAUSE, 290; Ciliata, GAUSE, 291.

DISTRIBUTION.

(See also under Ethology.)

Geographical.—Marine:

Antarctic Ocean: Foraminifera, EARLAND, 253; From Ross Sea, WARTHIN, 798.

Arctic Ocean: Foraminifera, SPÄRCK, 722; From Greenland, THORSON, 756; Plankton, Kara sea, BERNSTEIN, 54.

Atlantic Ocean and adjacent seas: Plankton, Black Sea, LEPSI, 473; Foraminifera, CUSHMAN, 190; Of South Georgia, ANON, 26; Dinoflagellata, BRAARUD, 89, HOVASSE, 374; Ciliata, S. Atlantic, HART, 336; Black Sea, PASPALEWA-JELIASKOWA, 588; Suctoria of North and Baltic Seas, KAHL, 424; Baltic, LUTHER, 492; North Sea, WULFF, 828; Tortugas, PEARSE, 592.

Pacific Ocean and adjacent seas: Marine plankton, China, SCHODDUYN & LEROY, 674; Foraminifera, CUSHMAN, 190, 191, 192; Of the Malay Archipelago, HOFKER, 367; Dinoflagellates, CUPP, 186a, CAMPBELL, 115, NIELSEN, 561; Great Barrier Reef, MARSHALL, 519.

Non-Marine:

Europe: Freshwater plankton, Poland, WAWRZYNIAK, 799, 800, Germany, WEIMANN, 805; Freshwater Vampyrellidae, VALKANOV, 767; Foraminifera and Radiolaria, HERMADEN-WINKLER, 355; Foraminifera from oilfields of North Germany, EICHENBERG, 256, 257; Fossil Foraminifera of Sweden, HADDING, 328; Baltic, EISENACK, 258; Sicily, GREGORIO, 322; Secondary, Sweden, BROTZEN, 95; Tertiary, BIEDA, 61; Tertiary, Poland, CIZANCOURT, 153; From Silesia, JEDLITSCHKA, 406; Czechoslovakia, BRIDA, 62; Greece, LAPPARENT, 462; Europe, ABRARD, 2; Miocene, Syria, DAVID, 203, 204;

Tertiary Nummulites from S.W. France, BIRDA, 60; Bulgaria, BAKALOW, 34; Dinoflagellates, Gulf of Naples, ISSEL, 385; From south of France, BIECHLER, 57; Cretaceous, DEFLANDRE, 215; Cretaceous Tintinnids, CASASNOVAS, 119.

Asia: Freshwater Rhizopoda, Nanking, WANG & NIE, 796; Paleozoic foraminifera, China, CHEN, 141; Tertiary, East Indies, CAUDEI, 120; Palestine, COFF, 181; India, DAINELLI, 201; Timor, HENRICI, 353; Permian from China, GUBLER, 327; Freshwater dinoflagellates from India, SEWELL, 707; Freshwater Tintinnids, Nanking, NIE, 560.

Africa: Tertiary Foraminifera, BOURCART & DAVID, 75, FLANDRIN & LUCAS, 270, CUVILLIER, 200; Fossil, Madagascar, BESARIE, 55; Morocco, CIZANCOURT, 152; Paleozoic, Tunis, DOUVILLE, 239.

N. America: Plankton, British Columbia, WAILES, 790; Alaska, WAILES, 789, 792; Freshwater Rhizopoda, WENNINGER, 807; Oligocene foraminifera, Florida, COLE, 160; Tertiary, California, BARBAT & JOHNSON, 36; From Florida, COLE & PONTON, 161; Tertiary siliceous, DEFLANDRE, 213; Tertiary, Louisiana, HOWE, 378; Eocene, Louisiana, HOWE & WALLACE, 379; Flagellates from Lake Winnipeg, BAJKOV, 33; Freshwater Dinoflagellates, WAILES, 791; California, TAI & SKOGSBERG, 737; Brackish water ciliates from California, KIRBY, 438.

S. America: Foraminifera of Cuba, BERMÚDEZ, 53; Tertiary, Cuba, HADLEY, 329; Tertiary, Fiji, CUSHMAN, 187; Oligocene, South and Central America, DORR, 238; Brackish water and tertiary from Venezuela, HEDBERG, 343; From miocene of Colombia, TOLMACHOFF, 757; Pliocene Euglenoida, Argentine, FRENGUELLI, 278.

Australia Foraminifera, CHAPMAN, PARR & COLLINS, 130; Tertiary, S. America, BARKER, 37; Fossil, Australia, HOWCHIN, 377.

Pacific Islands: HOVASSE, 375; Freshwater plankton, Japan, MÉNO, 764; Tertiary Foraminifera, Fiji, WHIPPLE, 818.

General: Distribution of Opalinidae, METCALF, 528.

Geological.—General: General geology of Belgium, MAILLIEUX, 509; Paleozoic plankton, RUEDEMANN, 647; Foraminifera, HUBER, 381; Of Atlantic Ocean Bed, SCHOTT, 676; Oklahoma, VANDERPOOL, 773; Tests of Fusulinidae, GUBLER, 323; *Trachelomonas*, DEFLANDRE, 210.

Primary: Paleozoic plankton, RUEDEMANN, 647; Technique for foraminifera, SECRIST, 700; Foraminifera, GUBLER, 327; Baltic, EISMACK, 258; Sicily, GREGORIO, 322; From Austrian Alps, KÄHLER, 426; Yugoslavia, HERITSCH, 354; Tunis, DOUVILLÉ, 239; Iowa, MILLER & CARMER, 531; THOMPSON, 754; Oklahoma, MOREMAN, 538; China, CHEN, 141; Comparison of American and Austrian Fusulinidae, KÄHLER, 427; Radiolaria, Poland, SUJKOWSKI, 730.

Secondary: Rhizopoda, Sweden, EWETZ, 233; Foraminifera, CUSHMAN, 188, 189, CUSHMAN & CAMPBELL, 193, CUSHMAN & GARRETT, 196; Sweden, BROTZEN, 95; Germany, SCHNETZER, 672; Schleswig, SCHÖNFELDER, 675; From oilfields of North Germany, EICHENBERG, 256, 257; Morocco, RUSSO, 649; Palestine, SCHNETZER, 671; Madagascar, BESARIE, 55; N. America, SCOTT, 698; Alabama, SANDIDGE, 656, 658, 659; Kansas, MORROW, 540; Texas, PLUMMER, 604, SAMPLE, 655, THOMAS, 753; Cuba, PALMER, 576, 579, VAUGHAN, 780; Australia, HOWCHIN, 377; Distribution of *Globotruncana*, THALMANN, 748; Foraminifera and Radiolaria, HERMADEN-WINKLER, 355; Radiolaria, Cuba, PALMER, 578; Dinoflagellata, DEFLANDRE, 215; Tintinnids, CASASNOVAS, 119.

Tertiary: Foraminifera, SYLVAIN, 734; SHUPACK, 710, LAPARENT, 462, HUBER, 381, HADDING, 328, BIEDA, 60, 61, CUVILLIER, 200, BOURCART & DAVID, 75, CUSHMAN, 188, CUSHMAN & JARVIS, 197, CUSHMAN & DUSENBURY, 194, CUSHMAN & GALLIHER, 195, CUSHMAN & KLEINPELL, 198, FLANDRIN & LUCAS, 270; Europe, ABRARD, 2; England, WRIGLEY, 827; Czechoslovakia, BIEDA, 62; Bulgaria, BAKALOW, 34; Poland, CIZANCOURT, 153; Silesia, JEDLITSCHKA, 406, 407, OPPL, 568;

Germany, SCHNETZER, 673; Rhodes, REINA, 628; Morocco, CIZANCOURT, 152; Palestine, COX, 181, SCHNETZER, 671; Syria, DAVID, 203, 204; Canada, WICKENDEN, 821; Florida, COLE, 160, COLE & PONTON, 161; California, BARBAT & JOHNSON, 36; Montana, SANDIDGE, 657; Louisiana, HOWE, 378, HOWE & WALLACE, 379; Kansas, NEWELL, 555; Texas, PLUMMER, 605; Cuba, HADLEY, 329, PALMER, 577, 579; S. America, BARKER, 37, TOLMACHOFF, 757; South and Central America, DORR, 238; Mexico, THALMANN, 747; Venezuela, HEDBERG, 343; Australia, CHAPMAN, PARR & COLLINS, 130; HOWCHIN, 377; New Zealand, PARR, 584; Fiji, CUSHMAN, 187, WHIPPLE, 818; India, DAINELLI, 201; India, KUMAR & PICHAMUTHU, 455; East Indies, SCHMID, 669, CAUDRI, 123; Celebes, VLERK & DOZY, 785; Timor, HENRICI, 353; Siliceous, DEFLANDRE, 213; Foraminifera and Stromatoporeoids, HICKSON, 361; Distribution of *Rotalia gaimardi*, THALMANN, 749; Distribution of *Globotruncana*, THALMANN, 748; Radiolaria, Cuba, PALMER, 578; Silicoflagellata, ZANON, 847; Euglenoidida, Argentine, FRENGUELLI, 278; *Trachelomonas*, DEFLANDRE, 210.

III.—SYSTEMATIC.

Full references are given only in the case of new species. In other cases the numeral in "**LARGE BOLD CLARENDON**" refers to the list of titles where the full reference will be found. In the case where a reference is given in the Systematic Part, the volume number is printed in "**small bold Clarendon**."

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Physarum listeri nom. n. for *P. luteolum* N. America, MACBRIDE & MARTIN. The Myxomycetes 1934.

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(a) Amœbida.

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General:—Nomenclature, CUSHMAN & PARKER 199.—Nomenclature of fossil forms; a plea for simplification and revision, THALMANN 751.—Supplement to the bibliography and index to genera and species for the year 1931, THALMANN 750.

†Foraminifera and the age of the Atlantic Ocean bed, SCHOTT 676.

Fossil forms of Belgium—general account, MAILLIEUX 509.

Life cycle of Foraminifera, KOFOID 447; MACFADYAN & KENNY 502.

Juvenarum, a new term for young shells, HENBEST 352; General account of the secondary and tertiary fossil forms of Australia, HOWCHIN 377.

Siliceous forminifera, DEFLANDRE 209.

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†*Vaginulina niobrarensis, rectilateralis, knighti, submarginata* spp. n. Cretaceous Kansas, MORROW J. Paleont. Sharon 8 p. 186 figs.—†*V. stolleyi* sp. n. Cretaceous N. Germany, EICHENBERG Jber. Niedersächs. geol. Ver. Hannover 25 p. 1 figs.

†*Valvulineria infrequens* sp. n. Cretaceous Kansas, MORROW J. Paleont. Sharon 8 p. 186 figs.—†*V. grandis* sp. n. Miocene California, CUSHMAN & GALLIHER Contr. Cushman Lab. Foraminif. 10 p. 24 figs.—†*V. involuta* sp. n. Eocene California, CUSHMAN & DUSENBURY Contr. Cushman Lab. Foraminif. 10 p. 51 figs.—†*V. joaquinensis* sp. n. Miocene, California, CUSHMAN & KLEINFELL Contr. Cushman Lab. Foraminif. 10 p. 1 figs.

†*Vaughanina* gen. n. *cubensis* sp. n. Cretaceous Cuba, PALMER Mem. Soc. cubana Hist. nat. 8 p. 235 figs.

†*Ventilabrella plummerae* sp. n. Cretaceous Alabama, SANDIDGE Amer. Midl. Nat. Notre Dame 13 p. 190 figs.

†*Verneuilina fusiformis* sp. n. Miocene, Colombia S.A., TOLMACHOFF Ann. Carnegie Mus. Pittsburgh 23 p. 275 figs.—*V. superba* sp. n. Antarctic, EARLAND Discovery Reports x p. 1 figs.

†*Virgulina californiensis* varr. n. *grandis, ticensis* Miocene California, CUSHMAN & KLEINFELL Contr. Cushman Lab. Foraminif. 10 p. 1 figs.—†*V. delmonteensis* sp. n. Miocene California, CUSHMAN & GALLIHER Contr. Cushman Lab. Foraminif. 10 p. 24 figs.—†*V. subplana* sp. n. Miocene California, BARBAT & JOHNSON J. Paleont. Sharon 8 p. 3 figs.

†*Vulvulina pachyheilus* sp. n. Tertiary Cuba, HADLEY Bull. amer. Paleont. Ithaca 20 p. 3 figs.

Webbinella farcta sp. n. Antarctic, EARLAND Discovery Reports x p. 1 figs.—†*W. tholus, quadripartita* spp. n. Paleozoic Oklahoma, MOREMAN J. Paleont. Sharon 7 p. 393 figs.

†*Wedekindellina dunbari, elfina, uniformis* spp. n. Carboniferous Iowa, THOMPSON Stud. Nat. Hist. Iowa Univ. 16 p. 275 figs.

(d) Heliozoa.

[Vacant.]

(e) Radiolaria.

Radiolaria, affinities with and origin from Peridinians, CHATTON 132.

Dictyophimus multispinus sp. n., from Kara Sea, BERNSTEIN Trans. Arct. Inst. 9 p. 3 figs.

3.—MASTIGOPHORA.

Flagellates parasitic in cockroach, *Cryptocercus punctulatus*, with genn. n. et spp. n., monographic account, CLEVELAND, ETC. 154.

A. PHYTOMASTIGINA.

(a) Chrysomonadina.

†*Ammodochium speciosum* sp. n. New Zealand, DEFLANDRE Ann. Protist. 4 p. 76 figs.

Dictyocha fibula var. n. *hexagona* Great Barrier Reef, MARSHALL Sci. Repts. Gt. Barrier Reef Exped. 4 p. 623 figs.

†*Ebriella* gen. n. *hannai* sp. n. California, DEFLANDRE Ann. Protist. 4 p. 76 figs.

†*Hermesinella* gen. n. *transversa* sp. n. New Zealand, DEFLANDRE Ann. Protist. 4 p. 76 figs.

†*Hermesinopsis* gen. n. *caulleryi* sp. n. Barbados, DEFLANDRE Ann. Protist. 4 p. 76 figs.

Hovassebria gen. n. and nom. n. for *Cornua brevispinosa*, *crispa*, *gothica* Hovasse, DEFLANDRE Bull. Soc. Zool. Fr. 58 p. 371 figs.

†*Micromarsupium* gen. n. *anceps* sp. n. New Zealand, DEFLANDRE Ann. Protist. 4 p. 76 figs.

†*Parebria valida* sp. n. Jutland, DEFLANDRE Ann. Protist. 4 p. 76 figs.

†*Pseudammodochium robustum* sp. n. Japan, DEFLANDRE Ann. Protist. 4 p. 76 figs.

(b) Cryptomonadina.

[Vacant.]

(N-4573 e)

(c) Dinoflagellata.

Ceratium angustum, *uteri* spp. n. Californian coast, CAMPBELL J. Ent. Zool. Claremont Cal. 26 p. 17 figs.—*C. subrobustum*, *tripodoidea*, *sempulchellum*, *filicorne*, *petersii* spp. n. Pacific Ocean, NIELSEN Dana Rep. Carlsberg Foundation's Oceanogr. Exped. 1928-30 4 p. 1 figs.

Coccidinea ordo nov., with Coccidinidae (= Coccidiiniaceae) fam. n., connecting the Dinoflagellates with the Sporozoa, CHATTON & BIECHLER C.R. Acad. Sci. 199 p. 252.

Coccidinium gen. n. *legeri* sp. n., *C. duboscqui* sp. n., coccidiomorphic parasites of Dinoflagellates, CHATTON & BIECHLER C.R. Acad. Sci. 199 p. 252 figs.

Dinophysis rotundiformis, *brevisulcus* spp. n. Marine, California, TAI & SKOGSBERG Arch. Protistenk. 82 p. 380 figs.

Glenodinium elpatiewskii nom. n. for *Peridinium umbonatum* var. *elpatiewskii* Freshwater N. America, WAILES Mus. Art. Notes, Vancouver 7 Suppl. 2 p. 1 figs.

†*Gymnodinium cretaceum* sp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

Gyrodinium pavillardii sp. n., BIECHLER C.R. Soc. Biol. Paris 115 p. 1039 figs.

†*Hystichosphaera speciosa*, *tubifera* spp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

Kryptoperidinium cunningtoni, *quadridens* nomm. n. for *Peridiniopsis cunningtoni*, *Peridinium quadridens* Freshwater N. America, WAILES Mus. Art. Notes, Vancouver 7 Suppl. 2 p. 1 figs.

Metaphalacroma gen. n. *skogsbergi* sp. n. Marine California, TAI & SKOGSBERG Arch. Protistenk. 82 p. 380 figs.

†*Palaeoglenodinium cretaceum* sp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

†*Palaeohystichophora infusorioides* sp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

†*Palaeoperidinium cayeuxi*, *caulleryi* spp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

†*Palaeotetradinium silicorum* sp. n. Cretaceous France, DEFLANDRE C.R. Acad. Sci. Paris 199 p. 966 figs.

Peridinium vagans sp. n. Californian coast, CAMPBELL J. Ent. Zool. Claremont Cal. 26 p. 17 figs.—*P. geminum* nom. n. for *P. inconspicuum* var. *contactum* Freshwater N. America, WAILES Mus. Art. Notes Vancouver 7 Suppl. 2 p. 1 figs.

Phalacroma vastiforme sp. n. Marine, California, TAI & SKOGSBERG Arch. Protistenk. 82 p. 380 figs.

Plectodinium gen. n. nucleovolvatum sp. n. Marine S. France, BIECHELER C.R. Acad. Sci. Paris 198 p. 404 figs.

Proheteroschisma gen. n. connectens sp. n. Marine California, TAI & SKOGSBERG Arch. Protistenk. 82 p. 380 figs.

(d) Euglenoidida.

Astasia chattoni sp. n. Freshwater, LWOFF & DUSI Ann. Inst. Pasteur Paris 53 p. 641.

Colacium sanguinea sp. n. Freshwater Tennessee, LACKEY J. Tennessee Acad. Sci. 9 p. 59 figs.

Euglena parasitica sp. n., attached to *Volvox*, SOKOLOFF An. Inst. Biol. 4 p. 197 figs. *E. rannunculuformis* sp. n. Freshwater Shantung, CHANG Peking Nat. Hist. Bull. 9 p. 15 figs. *E. robertilamii* sp. n. Coast of Normandy, LEFEVRE Bull. Lab. Marit. St. Servan 11 p. 23 figs. *E. univittata*, *bivittata* spp. n. CONRAD Ann. Protist. 4 p. 171 figs.

Lepocinclis, materials for monograph of the genus, CONRAD 163. *Lepocinclis aegyptiaca* sp. n., *reevykiana* var. n. *kriegeri*, *marssonii* var. n. *inflata*, *mespiliformis* var. n. *curvicauda*, CONRAD Ann. Protist. 4 p. 171 figs. *L. lobata*, *redekei*, *reevykiana*, *heterochila*, *crassicollis*, *mespiliformis*, *lefèvrei* spp. n., *acicularis* var. n. *acutissima*, *caudata* var. n. *nasuta*, *texta* var. n. *splendida*, *cylindrica* nom. n. for *L. ovum* var. *cylindrica*, *pseudo-ovum* nom. n. for *L. ovum*, *bütschlii* var. *fritschiana* comb. n. for *L. bütschlii*, *ovum* var. *major*, comb. n. for *L. bütschlii* var. *major ovum* var.

richiana comb. n. for *L. ovum*, *quadrata* comb. n. for *ovum* var. *quadrata*, *elongata* comb. n. for *fusiformis* var. *elongata*, *pseudo-texta* comb. n. for *texta* var. *salina*, *pseudo-texta* var. *minor* comb. n. for *texta* var. *minor*, *pseudo-ovum* var. *dresepolskiana* comb. n. for *ovum* var. *striata*, *pseudo-ovum* var. *obtusa* comb. n. for *bütschlii* var. *obtusa*, *ovata* comb. n. for *Phacuspyrum* var. *ovata*, *ovata* var. *deflandriana* comb. n. for *kufferathi*, *ovata* var. *australica* comb. n. ? for *Phacus pyrum* var. *australica*, CONRAD Arch. Protistenk. Jena 82 p. 203 figs.

Mallomonas gracillima, *lilloensis*, *spinulosa*, *salina*, *reevykiana* spp. n., *splendens* var. n. *biceps*, *playfairi* nom. n. for *Pseudomallomonas playfairi*, *elliptica* nom. n. for *P. elliptica*, *valcanoviana* nom. n. for *Mallomonas pyramiformis*, *sphagnalis* nom. n. for *Pseudomallomonas amphora*, CONRAD Mém. Mus. Hist. nat. Belg. 56 p. 1 figs.

Peranema ovalis sp. n. Freshwater Tennessee, LACKEY J. Tennessee Acad. Sci. 9 p. 59 figs.

Phacus asymmetricus sp. n. Freshwater Mexico, SOKOLOFF An. Inst. Biol. Mexico 4 p. 197 figs.

†*Trachelomonas adunca*, *araucana*, *areolata*, *argentina*, *costata*, *dactylus*, *flexuosa*, *matellus*, *onicophora*, *pectinata*, *pustulosa*, *pyramiformis*, *pyxis*, *sphaerica*, *uncinata* spp. n., *complexa* varr. n. *appendiculata*, *major*, *minor*, *obtecta*, *robusta*, *cordata* var. n. *appendiculata*, *cristata* varr. n. *acanthostoma*, *cylindrica*, *verrucosa*, *dybowski* var. n. *verrucosa*, *flexicollis* var. n. *laciniosa*, *komarovi* var. n. *araucana*, *peridiniformis* var. n. *decollata*, *phiata* var. n. *bipes*, †*pustulosa* var. n. *pulchra*, *robusta* var. n. *coronata*, *spinigera* var. n. *pliocenica*, *stephanopyxiformis* varr. n. *calostoma*, *minor*, *valida* var. n. *undulata*, *volvocina* var. n. *fibulata*, *wermeli* var. n. *araucana*, *yberiensis* varr. n. *membranosa*, *reticulata*, FRENGUELLI Mem. Geol. Soc. Ital. Rome 1 p. 1 figs.

(e) Phytomonadida.

Chlamydomonas, distinctive characters of spp.; *C. caeca* sp. n., from Mexico, SOKOLOFF An. Inst. Biol. Mexico 4 p. 197 figs.

B. ZOOMASTIGINA.

(f) Protomonadida.

Cochlosoma rostratum sp. n. from gut of Californian ducks, KIMURA Trans. Amer. Micr. Soc. 53 p. 102 figs.

Embadomonas, validity of generic name maintained, BISHOP 65.

Karotomorpha nom. n. for *Tetramastix* Alexeieff, 1916 (pre-occupied by rotifer-Zacharius, 1898—and homonym with free-living flagellate-Korshikow, 1925) with *K. bufonis* as genotype; synopsis of genus, TRAVIS 761.

Monas vulgaris = synonym of *M. guttula*, REYNOLDS 637.

Monas, taxonomic review of genus, revision of spp. (vide *Sterromonas*, *Physomonas*), REYNOLDS 637.

Monocercomonoides globus sp. n., parasitic in American roach, *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Oicomonas janczewskii sp. n. Fresh-water Poland, NAMYSŁOWSKI Trav. Comm. Sci. Math. Nat. Poznań (B) 1 p. 1 figs.

Opisthomitus gen. n. *avicularis* sp. n., from *Calotermes flavicollis*, France, DUBOSCQ & GRASSÉ Arch. Zool. Exp. 75 p. 615 figs.

Physomonas vestita transferred to g. *Monas*, REYNOLDS 637.

Saccinobaculus gen. n. *ambloaxostylus*, *doraxostylus*, *minor* spp. n. parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Schizotrypanum cruzi, validity of generic status maintained; *S.* placed between *Leishmania* and *Trypanosoma* (q.v.), DIAS 227.

Sterromonas formicina Kent = synonym of *Monas guttula*, the genus *S.* becoming *nomen nudum*, REYNOLDS 637.

Tetramastix vide *Karotomorpha*.

Trichomonas cornus sp. n. from *Corvus brachyrhynchos*, RICHARDSON Amer. J. Hyg. 20 p. 373 fig.—*T. halli* sp. n. from buccal cavity of cock, YAKIMOFF Bull. Soc. Path. Exot. 27 p. 734.—*T. hoareii* sp. n. from cormorant, *Phalacrocorax a. africanus* Victoria Nyanza, DE MURO Ann. Trop.

Med. Parasit. 28 p. 513 figs.—*T. vaginalis* Donné 1837, *T. hominis* Davaine, 1860 (= *T. intestinalis* Leuckart, 1879) and *T. macacovaginae*, Hegner & Ratcliffe 1927 specifically identical and synonymous, DOBELL 231.

Trypanosoma myocastori sp. n. from *Myocastor* Brazil, ARTIGAS & PACHECO Ann. Fac. Med. S. Paulo 10 p. 317 figs.—*T. iowensis*, *T. hixsoni* spp. n. from *Citellus* spp., U.S.A., BECKER & ROUDABUSH Iowa State Coll. of Sci. 8 p. 527 figs.—*T. congolense porci* subsp. n. polymorphic parasite from Congo pigs, SCHWETZ Bull. Agric. Congo Belge 1934 p. 1 figs.—*T. cruzi* revision of life-cycle and transmission (vide *Schizotrypanum*), DIAS 226.

Trypanosome of Congo pigs, identification with *T. simiae*, BOURGUIGNON & JUSSIAUT 77.

(g) Hypermastigida.

Barbulanympha gen. n. *laurabuda*, *ufalula*, *estaboga*, *coahoma* spp. n., parasitic in American roach, *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 158 figs.

Eucomonympha gen. n. *imla* sp. n. parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Eucomonymphidae fam. n. for *Eucomonympha* (q.v.).

Idionympha gen. n. *perissa* sp. n. parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Leptospironympha gen. n. *eupora*, *rudis*, *wachula* spp. n. parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Macrospironympha gen. n. *xylopletha* sp. n. parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Protophomonas gen. n. *tocopola* sp. n., parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Rhynchonympha gen. n. *tarda* sp. n., parasitic in American roach *Cryptocercus*, CLEVELAND et al. Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Trichonympha grandis, acuta, okolona, alga, lata, chula, parva spp. n., parasitic in American roach *Cryptocercus*, CLEVELAND *et al.* Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

Urinympha gen. n. *talea* sp. n., parasitic in American roach *Cryptocercus*, CLEVELAND *et al.* Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

(h) Diplomonadida.

Hexamita cryptocerci sp. n., parasitic in American roach *Cryptocercus*, CLEVELAND *et al.* Mem. Amer. Acad. Arts Sci. 17 p. 185 figs.

(i) Polymonadida.

Microrhopalodinidae fam. n. for *Oxymonas*, *Microrhopalodina* and *Proboscidiella*, DUBOSCQ & GRASSÉ Arch. Zool. Exp. 75 p. 615 figs.

4.—SPOROZOA.

A. COCCIDIOMORPHA.

(a) Gregarinida.

Hirmocystis (?) *parapeneopsisi* sp. n. from prawn, *Parapeneopsis*, Indian Ocean, SETNA & BHATIA Parasitol. 26 p. 34 figs.

Monocystis copiliae sp. n., from gut of copepod, *Copilia vitrea*, ROSE Bull. Soc. Hist. Nat. Alger. 24 p. 357 figs.

Protomagalhaensia (?) *attenuata* sp. n., from prawn, *Parapeneopsis* Indian Ocean, SETNA & BHATIA Parasitol. 26 p. 34 figs.

Stenophora ellipsoidi sp. n., from millipede, India, CHAKRAVARTY Arch. Protistenk. 82 p. 164 figs.

(b) Coccidiida.

Coccidia of domesticated animals, with host-list, BECKER 46.

Caryospora tremula (Allen, 1933) nom. n. for *Eumonospora tremula*, Allen, 1933, HOARE 364; ALLEN 11.

Caryospora, table for the differential diagnosis of spp., HOARE 364.

Coccidinea ordo nov. (v. under Dinoflagellata).

Eimeria angusta sp. n., *E. bonasae* sp. n., from American grouse, ALLEN Trans. Amer. Micr. Soc. 53 p. 1 figs.—*E. mustelae* sp. n., from *Mustela vison*, KINGSCOTE J. Parasit. 20 p. 252.—*E. paulistana* sp. n., from Brazilian hare, *Silvilagus minensis*, FONSECA Bol. Biol. 1 p. 60 fig.—*E. exigua* sp. n., from rabbit, Russia, YAKIMOFF Zbl. Bakt. I 131 p. 18 figs.—*E. solipedum*, *E. ungulata* spp. n., from equines, Russia, GOUSSEFF Arch. Wiss. Prakt. Tierheilk. 68 p. 67 figs.—*E. sprehni* sp. n., from Russian beaver, YAKIMOFF Berlin. Tierärztl. Woch. 50 p. 294 figs.—*E. zurnabadensis*, *E. azerbaidzhanica* spp. n., from Caucasian zebu and cattle, YAKIMOFF Ann. Soc. Belge Méd. Trop. 13 1933 p. 93 figs. [ref. in Z.R. vol. lxx (Protozoa), 821].

Eimeria, key to spp. in birds, ALLEN 9.

Eumonospora emended to *Caryospora* (q.v.).

Isospora lenti sp. n., from Brazilian snake, *Bothrops jararaca*, PINTO Ann. Acad. Bras. Sci. 6 p. 11 figs.—*I. suis* sp. n., from pig, BIESTER & MURRAY J. Amer. Vet. Med. Assoc. 84 p. 294; 85 p. 207 figs.—*I. phisalix* sp. n., from snake, *Elaphe quatuorlineata* Russia, YAKIMOFF & GOUSSEFF Arch. Protistenk. 81 p. 546 figs.

Isospora, list of spp., with oocyst measurements, and hosts, BECKER 44.

(c) Haemosporidia.

Anaplasmidæ fam. n. (v. infra Formæ incertæ sedis).

Babesia citelli sp. n., from *Citellus*, U.S.A., BECKER & ROUDABUSH Iowa State Coll. J. Sci. 8 p. 527 figs. *B. argentina* and *B. bigemina* in U.S.A., differential diagnosis, REES 622.

Entopolypoides gen. n. *macaci* sp. n. (near *Piroplasmidea*), from blood of *Macaca irus*, Java, MAYER Zbl. Bakt. I 131 p. 132 figs.

Haemoproteus raymundi sp. n., from Indian bird, *Leptocoma zeylanica*, FROILANO DE MELLO & RAIMUNDO Proc. Md. Acad. Sci. 1 p. 97 figs.

Plasmodium knowlesi var. n. *sintoni* from *Macacus*, BRUG Riv. Malariol. 1934 p. 121. *P. inui*, of *Silenus irus*, revision of morphology and biology, SINTON 714. *P. polare* sp. n., from American swallow, *Petrochelidon lunifrons*, MANWELL J. Parasit. 20 p. 334. *P. spp.* of birds, differential diagnosis and classification, GIOVANOLA 313.

B. CNIDOSPORIDIA.

(d) Myxosporidia.

Myxosporidia, spp. n. from freshwater fishes of Illinois, KUDO 454.

Henneguya cutanea sp. n., from *Abramis brama*, NEVA, DOGIEL & PETRUSCHEWSKY Trav. Soc. Nat. Léningrad 62 p. 366.—*H. clavicauda*, *H. crassicauda* spp. n., from fish, *Notropis* and *Campostoma* respectively, U.S.A., KUDO Ill. Biol. Mono. 13 p. 1 figs.

Myxidium aplodinoti sp. n., from fish, *Aplodinotus grunniens*, U.S.A., KUDO Ill. Biol. Mono. 13 p. 1 figs.

Myxobolus luciopercae sp. n., from *Lucioperca lucioperca*, NEVA, DOGIEL & PETRUSCHEWSKY Trav. Soc. Nat. Léningrad 62 p. 366.—*M. squamosus*, *M. teres*, *M. ovatus*, *M. angustus*, *M. vastus*, *M. gravidus*, *M. compressus*, *M. mutabilis*, *M. nodosus*, *M. obliquus*, *M. bellus*, *M. congestivus* spp. n., from various fishes, U.S.A., KUDO Ill. Biol. Mono. 13 p. 1 figs.

Myxosoma grandis, *M. procerum*, *M. robustum*, *M. bibullatum* spp. n., from fish, *Ericymba*, *Percopsis*, *Notropis* and *Catostomus* respectively, U.S.A., KUDO Ill. Biol. Mono. 13 p. 1 figs.

(e) Microsporidia.

Octosporea machaeri sp. n., from fish, *Dentex vulgaris*, Adriatic, JIROVEC Zool. Anz. 106 p. 61 figs.

(f) Actinomyxidia.

[Vacant.]

(g) Sarcosporidia.

Sarcocystis bettongiae sp. n., from Australian marsupial, *Bettongia*, BOURNE J. R. S. W. Austr. 19 p. 1 figs.—*S. grüneri* sp. n., from deer, YAKIMOFF & SOKOLOFF Berlin. Tierärztl. Woch. 50 p. 772 figs.

(h) Haplosporidia.

[Vacant.]

SPOROZOA INCERTAE SEDIS.

Erythrocytonucleophaga gen. n. *ranae* sp. n., in erythrocytes of *Rana esculenta*, Yugoslavia, IVANIĆ Zbl. Bakt. I 133 p. 1 figs.

Globidium, discussion of systematic position, BABUDIERI 31; affinities with Coccidia and Sarcosporidia; *G. navillei* sp. n. from *Tropidonotus*, HARANT & CAZAL Ann. Parasit. 12 p. 162 figs.

Toxoplasma microti sp. n. in wild vole, *Microtus agrestis*, England, FINDLAY & MIDDLETON J. Anim. Ecol. 3 p. 150 figs.

5.—CILIOPHORA.

A. OPALINATA.

Opalinidae, affinities of the genera (a correction), METCALF 529.

B. CILIATA.

General: Phylogeny of ciliates, LEFSI 474.

Ecto- and endoparasitic forms, general account with keys, KAHL 423.

(a) Holotrichida.

Actinobolina wenrichii sp. n. Freshwater Nanking, WANG & NIE Contr. Biol. Lab. Sci. Soc. China 10 p. 1 figs.

Andreula gen. n. (nom. n. for *Conchophthirius* André, 1910), KAHL Tierwelt Nord- u. Ostsee 26 p. 147 figs.

Biggaria gen. n. (nom. n. for *Cryptochilum* Wenrich, 1932), KAHL Tierwelt Nord- u. Ostsee 26 p. 147 figs.

Conchophthirius magna sp. n., from American mussel, *Elliptio complanatus*, KIDDER Biol. Bull. 66 p. 69 figs. *C. striatus* sp. n., from gut of sea-urchins, Japan, UYEMURA Sci. Rep. Tokyo Bunr. Daig (B) 1 p. 181 figs.

Conidophrys gen. n. *pilisuctor* sp. n. (Pilisuctoridae q.v.), ectoparasitic on Crustacea, CHATTON & LWOFF C.R. Acad. Sci. 199 p. 696 figs.

Cryptochilidium sigmoides, *C. minor* spp. n., from gut of sea-urchin, *Anthocidaris crassispina*, YAGIU J. Sci. Hirosh. Univ. 3 p. 25 figs.

Entorhipidium fukuui sp. n., from gut of sea-urchins, Japan, UYEMURA Sci. Rep. Tokyo Bunr. Daigaku (B) 1 p. 181 figs.

Gargarius gen. n. *gargarius* sp. n., from mussel, Atlantic coast, CHATTON & LWOFF Bull. Soc. Zool. Fr. 59 p. 375.

Glaucoma paedophthora sp. n., parasitic on eggs of molluscs, *Planorbis* and *Physopsis*, BERGHE C.R. Soc. Biol. 115 p. 1423 fig.

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(c) Oligotrichida.

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FORMAE INCERTAE SEDIS.

Anaplasmidæ fam. n., to include *Anaplasma*, *Grahamia* (= *Grahamella*), *Bartonella* and *Eperythrozoon*, NEITZ ALEXANDER & DU TOIT 552.

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III. PORIFERA OR SPONGIDA

BY

M. BURTON, M.Sc.

CONTENTS.

| | PAGE |
|-------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX:— | |
| Structure | 4 |
| Physiology | 4 |
| Development and Growth | 4 |
| Ethology... .. | 4 |
| Distribution | 4 |
| III. SYSTEMATIC:— | |
| Calcarea | 5 |
| Freshwater | 5 |
| Hexactinellida | 6 |
| Tetraxonida | 6 |
| Euceratosa | 8 |
| Incertae Sedis | 8 |

I.—TITLES.

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II.—SUBJECT INDEX.

STRUCTURE.

Anatomy.—BURTON, 9.

Cytology.—Duboscq & TUZET, 16.

PHYSIOLOGY.

BIDDER, 6; LÖNNBERG, 28; POURBAIX, 34–35.

DEVELOPMENT AND GROWTH.

Embryology.—BURTON, 9, 13; SAEDELEER, 41; WILSON, 56.

Regeneration.—DE LAUBENFELS, 15; HELWIG, 25.

ETHOLOGY.

Colour.—RENOUF, 39.

Symbiosis.—ARNDT, 3; PEARSE, 33.

DISTRIBUTION.

FRESHWATER.

Europe.—BERG, 4; MOON, 30; SCHULZE, 45.

Africa.—ARNDT, 1; BURTON, 12.

America.—GEE, 21; TANNER, 47.

Japan.—SASAKI, 43.

Australia.—GRAY, 22.

MARINE.

Arctic.—BURTON, 10.

N. Atlantic and Europe.—FERRER, 19; FISCHER-PIETTE, 20; REMANE, 37; RENOUEF, 38; TOPSENT, 49-52; VOSMAER, 54.

West Africa.—BURTON, 11.

Dutch E. Indies.—BRØNDSTED, 7.

Australia.—BURTON, 8.

Pacific.—TOPSENT, 53.

Falkland Is.—BURTON, 9.

Puerto Rico.—DE LAUBENFELS, 14.

FOSSIL.

Primary.—Palaeozoic, YABE & SUGIYAMA, 57; Cambrian, REED, 36; SAMPELEYO, 42; THORAL, 48; Devonian, FENTON & FENTON, 18; Silurian, RUEDEMANN, 40; Carboniferous, LICHAREW, 27; Ordovician, RUEDEMANN, 40; Permian, GREGORIO, 23; PARONA, 32; Triassic, LEES, 26.

Secondary.—Liassic, SIYKOWSKI, 46; Jurassic, NASSAUS, 31; Cretaceous, FENTON & FENTON, 17; SCHÖNFELDER, 44; WELLS, 55.

Tertiary.—Neocomian, MAIRE, 29; Pleistocene, BERRY, 5.

Pre-Quaternary.—HADDING, 24.

III.—SYSTEMATIC INDEX.

CALCAREA.

†*Amblysiphonella merlai* p. 43 pl. viii figs. 9-11, *nodosa* p. 43 pl. viii figs. 4-7, *clathrata* p. 44 pl. viii figs. 12-14 spp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933; *A. sikokuensis* p. 178 pl. xx fig. 1 pl. xxi figs. 1-2, *mabuchii* p. 179 pl. xx figs. 2-4 spp. n. Palaeozoic Japan, YABE & SUGIYAMA Japan J. Geol. Geogr. Tokyo 11.

†*Corynella crysanthemum* p. 33 pl. xi figs. 1-8, *fabianii* p. 34 pl. xii figs. 9-12, *turbo* p. 35 pl. viii figs. 17-18, *ovoidalis*

p. 36 pl. viii figs. 15-16 spp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933.

†*Guadalupia minima* p. 48 fig. 3, *girtyi*, p. 48 fig. 4, *ramosa* p. 49 pl. x fig. 4, *alveolaris* p. 49 pl. vii fig. 10, *cidarites* p. 50 pl. vii fig. 9 spp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933.

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†*Enoplocoelia contabulata* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933 p. 45 pl. viii fig. 3.

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Leuconia ramosa sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 520 text-fig. 1.

†*Preverticillites* gen. n. *columnella* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933 p. 46 pl. ix figs. 1-4.

†*Sollasia ostiolata-permica* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933 p. 37.

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†*Thaumastocoelia permosicula* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933 p. 38 pl. viii fig. 2.

†*Trinacriella* gen. n. *retusa* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933 p. 32 pl. xii figs. 13-15.

†*Verticillites budaensis* sp. n. Cretaceous U.S.A., WELLS J. Paleont. Sharon Mass. 8 p. 167 pl. xxvii figs. 1-5 text-fig. 1.

Vosmaeropsis hispanica sp. n. Spain, FERRER Bol. Soc. esp. Hist. nat. 33 1933 p. 353 pl. xxiv figs. 1-2 pl. xxv text-fig. 4.

"FRESHWATER."

(Spongillidae.)

Spongilla shikaribensis p. 223 pl. v figs. 9-11 pl. vii fig. 30 text-figs. 3-4, *akanensis* p. 230 pl. vi figs. 16-17 text-fig. 7 spp. n. Japan, SASAKI Sci. Rep. Tôhoku Univ. 9.

HEXACTINELLIDA.

†*Adrianella* gen. n. *distefanoi* p. 14 pl. ii figs. 1-4, *craterica* p. 15 pl. ii figs. 6-7 spp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933.

†*Arbuscula* gen. n. *contortiplicata* sp. n. Permian Sicily, PARONA Mem. Soc. Geol. Rome 1 1933 p. 22 pl. iv fig. 10, pl. v figs. 1-2.

†*Aulacospongia calogerii* p. 20 pl. i figs. 6-8, *carota* p. 21 pl. ii figs. 8-9 spp. n. Permian Sicily, PARONA Mem. Soc. Geol. Ital. Rome 1 1933.

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†*Teganium minutum* p. 69 pl. viii fig. 5 Ordovician, *claviforme* p. 70 pl. vii figs. 7-8 pl. viii figs. 1-4 Silurian spp. n., RUEDEMANN Mem. Geol. Soc. America 2.

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TETRAXONIDA.

(i) HOMOSCLEROPHORA.

Roosa gen. n. *zyggompha* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 2.

(ii) STREPTASTROSCLEROPHORA.

Neothenea gen. n. *enae* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 5.

Pachastrella dilifera sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 1.

(iii) ASTROSCLEROPHORA.

Ancorina fenimorea sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 3.

Erylus allenii sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 7.

Hezekia gen. n. *demera* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 4.

Jaspis bandae sp. n. Dutch E. Indies, BRØNSTED Mém. Mus. Hist. nat. Belg. 2 (15) p. 8 figs. 4-6.

Kapnesolenia gen. n. *fisheri* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 16.

(iv) LITHISTIDA.

(Vacant.)

(v) SIGMATOSCLEROPHORA.

Adocia synonymy, BURTON 8 p. 534.

Alcyospongia gen. n. *india* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 18.

Anacanthaea rea sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 11.

Anomodoryx gen. n. type *Desmacidon dendyi* Whitelegge, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 555.

Anomolissa gen. n. *amaza* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 17.

Anomomyxilla gen. n. type *Desmacidon psammodes* Hentschel, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 555.

Axinella history, synonymy and description, VOSMAER 54.

Azociella calla sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 16.

Azoz notes, BURTON 8 p. 549.

Callyspongia synonymy, BURTON 8 p. 539; *C. ramosa* synonymy and description, BURTON 8 p. 603; *C. ridleyi* sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 543 text-fig. 7.

Chalina bandae p. 12 figs. 8-9, *sorongae* p. 14 figs. 10-11, spp. n. Dutch E. Indies, BRØNDSTED Mém. Mus. Hist. nat. Belg. 2 (15).

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†*Clionolithes irregularis* p. 45 pl. vii figs. 7, *fossiger* p. 46 pl. vii figs. 4-6 spp. n. Devonian U.S.A., FENTON & FENTON Amer. Midl. Nat. Notre Dame 13 1932.

Coelosphaerella gen. n. p. 20, *johnsoni* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 21.

Crella history, synonymy and description, VOSMAER 54.

Dactylella raphoxea sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 12.

Densa gen. n. *araminta* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 14.

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Gelliodes leucosolenia sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 22.

Haliclona synonymy, BURTON 8 p. 529; *H. pellasarca* p. 23, *podatypa* p. 23 spp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17); *H. tenuispiculata* p. 533, *flabello-digitatus* p. 534 pl. i fig. 10 spp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14).

Hamigera strongylata sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 549.

Hemimyscale gen. n. type *Desmacidon columella* Bowerbank, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 556.

Histoderma calcifera sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 548 text-fig. 8.

Hoplochalina glacialis sp. n. Falklands, BURTON Further Zool. Res. Swedish Ant. Exped. 3 (2) p. 12 pl. ii fig. 1.

Hymeniacion history, synonymy and description, VOSMAER 54.

Inflatella bartschi sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 21.

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Microciona history, synonymy and description, VOSMAER 54; *M. basispinosa* sp. n. Falklands, BURTON Further Zool. Res. Swedish Ant. Exped. 3 (2) p. 38 pl. v fig. 2 text-figs. 11-12.

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Ozeostilon burtoni sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 15.

Pachypellina gen. n. type *Petrosia fistulata* Kirkpatrick, BURTON Further Zool. Res. Swedish Ant. Exped. 3 (2) p. 18.

Pararhaphoxya gen. n. *tenuiramosa* sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 565 text-fig. 13.

Polymastia megasclera sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 567 text-fig. 14.

Protophllitaspongia gen. n. *oxeata* sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 562 text-fig. 12B.

Psammodoryx gen. n. type *Dysidea chaliniformis* Carter, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 566.

Pseudosuberites melanos sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 9.

Raphidotethya gen. n. *enigmatica* sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 526 text-fig. 2.

Raspailia history, synonymy and description, VOSMAER 54.

Rhaphidophylus lissocladus sp. n. Falklands, BURTON Further Zool. Res. Swedish Ant. Exped. 3 (2) p. 33 pl. iv fig. 1 text-figs. 4-5; *R. orientalis* sp. n. Dutch E. Indies, BRØNDSTED Mém. Mus. Hist. nat. Belg. 2 (15) p. 20 figs. 20-22.

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Ridleia dendiia sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 9 (17) p. 10.

Strongylacidon intermedia sp. n. Australia, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 550 text-fig. 9.

Strongylophora rampa sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 19.

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Stylorella suberitoides (err. *suberitoides*) sp. n. Dutch E. Indies, BRØNDSTED Mém. Mus. Hist. nat. Belg. 2 (15) p. 24 figs. 25-26.

Suberites post-larval, BURTON 13.

Tedaniopsamma gen. n. type *Hircinia flabellopalmata* Carter, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 599.

Tethycordyla gen. n. *thyris* sp. n. Puerto Rico, DE LAUBENFELS Smithsonian. Misc. Coll. 91 (17) p. 8.

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Tetilla enoi sp. n. Dutch E. Indies, BRØNDSTED Mém. Mus. Hist. nat. Belg. 2 (15) p. 7 fig. 3.

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EUCERATOSA.

Apysinopsis Mediterranean forms, TOPSENT 50.

Dysidea fragilis synonymy and description, BURTON 8 p. 583.

Fasciospongia gen. n. type *Stelospongia australis* var. *fovea* Lendenfeld, BURTON Gt. Barrier Reef Exped. 1928-29 4 (14) p. 602.

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IV. COELENTERATA

ARRANGED BY

A. KNYVETT TOTTON.

CONTENTS.

| | PAGE |
|------------------------------|------|
| I. TITLES | 1 |
| II. SUBJECT INDEX | 9 |
| III. SYSTEMATIC INDEX | 12 |

1.—TITLES.

1.—Alvarado, S. Zooxantelas, Ficocitos y Colocitos en la Medusa *Cassiopea borbonica*. Rev. esp. Biol. Madrid 3 1-2 1934 pp. 31-50 13 figs.

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II.—SUBJECT INDEX.

GENERAL AND MISCELLANEOUS.

Revision of medusae of Paris Museum, RANSON, 121, 122, 123.

Pigment of Scyphomedusae, STIASNY, 147.

Medusae as fish-eaters, GUDGER, 55.

Wesen und Wege der Paläontologie, HENNIG, 62.

Revision of *Stylactis*, IWASA, 75.

Hydroids as food supply for marine animals, FRASER, 48.

Rate of growth of *Tubularia indivisa*, MANGIN, 104.

Colourless *Hydra* in Manchester water supply, WARD, 169.

Monophyism in Calycophorae, TOTTON, 159.

Terminology in Siphonophora, TOTTON, 159.

Feeding Aquarium coelenterates, BÖHNKE, 7.

Research on British Dendroid Graptolites, BULLMAN, 18.

Succession of Graptolite faunas, GORTANI, 51.

Graptolites and their associates, RUEDEMANN, 132.

Muscles of *Metridium dianthus*, JORDAN, 77.

Accoutial extract of *Adamsia*, CANTACUZÈNE & DAMBOVICEANU, 21.

Poison of *Adamsia palliata*, CANTACUZÈNE & DAMBOVICEANU, 22.

Serum of *Eupagurus* and poison of *Adamsia*, CANTACUZÈNE & DAMBOVICEANU, 23.

Revision of Actinians, CARLGREN, 25.

Study of Antipatharian stems in infra red light, PAX 117.

Systematic position of the Stromatoproids, HICKSON, 67.

The mighty Polyp, McNEIL, 102.

The Marsili coral collection of Bologna University, NEVIANI, 111.

Effect of lunar cycles on growth of micro-atolls, KREMP, 84.

Australian L. Carboniferous coral types in British Museum, HILL, 68.

Belgian fossil coelenterates, MAILLIEUX, 103.

D'Orbigny's type corals, BOULE, 14.

Historical summary of modern studies of Paleozoic corals, GROVE, 54.

Corals and Coral-Reefs.—FERRER HERNÁNDEZ, 44; MA, 100; MERRIAM, 105; TERADA, 155; VAUGHAN, 165; YABE, 178; YONGE, 184; Coral reefs and Atolls, DAVIS, 37; Swedish fossil reefs, HADDING, 57; Northern reefs, DONS, 40; Colour sketches of corals, MINER, 107.

Classification.—The subgenera of *Acropora*, THIEL, 156.

STRUCTURE.

Dictyonema, *Desmograptus* and *Dendrograptus*, BULMAN, 17; *Craspedacusta*, DEJDAR, 38; *Dictyonema*, STØRMER, 150.

Septal arrangements in Fungids, BOSCHMA, 10.

Gonothecae of *Diphasia*, PHILBERT, 119.

Histology of *Hydra*, SCHLOTTKE, 138.

PHYSIOLOGY.

Craspedacusta, DEJDAR, 38.

Influence of diluted sea-water on medusae, BENAZZI, 4.

Movement of swimming plates in *Mnemiopsis*, COONFIELD, 33.

Tonus of *Metridium* muscle, JORDAN, 78.

Hydrogen ion concentration in *Aglantha*, NOMURA & KOKUBO, 112.

Nervous system of *Coeloplana bockii*, MOORE, 109.

Sense organs of *Aurelia*, STEINER, 146.

Seasonal change of growth rate of corals, and temperature, YING, 183.

DEVELOPMENT.

Aurelia aurita, WIKSTRÖM, 174; *Dynamena pumila*, TEISSIER, 154; *Thaumatoscyphus distinctus*, HANAOKA, 59; *Craspedacusta*, DEJDAR, 38; Nematocysts of *Physalia*, WILL, 176; Buds in *Pelmatohydra*, BURT, 20.

Longitudinal division in *Hydra*, ROUDABUSH, 130.

Metamorphosis of *Pelagia*, UCHIDA, 163.

Regeneration.—*Pelmatohydra*, BURT, 20; *Hydra*, KLEIN, 85; TOKIN & GORBUNOVA, 158; Endoderm of *Hydra*, HONCZEK, 70; Cut fragments of *Hydra*, PAPENFUSS, 114.

ETHOLOGY.

Scyphomedusae, KRAMP, 83; *Craspedacusta*, DEJDAR, 38; Adriatic hydroids, BROCH, 15; Roscoff Coelenterates, TEISSIER, 153.

Feeding mechanism and digestion in *Cassiopea frondosa*, SMITH, 144.

Starvation and reduction in *Aurellia*, WILL, 175.

Broods in *Hydra*, SEWELL, 142.

A brood-caring Actinian, UCHIDA, 161.

Occurrence of medusae and ctenophores in Lough Ine, RENOUE, 129.

Halcampoides zone of Macomacalcaria-community Scoresby Sound Fjord, E. Greenland, THORSON, 157.

Light-reactions of *Hydra*, HAUG, 60A.

Behaviour of swimming plate rows of Ctenophores, CHILD, 27A.

Ecology and physiology of corals, YONGE, 184.

Commensalism, Association and Symbiosis.—Hydroids associated with *Aphrodite*, LELOUP, 96; Crabs and Hydroids, LELOUP, 97; Zooxanthellae in *Cassiopea*, ALVARADO, 1; *Hydrichthys* and *Cyclothone*, DAMAS, 35; Fish and Anemone, GOHAR, 50; Hydroids on Dutch crabs, LELOUP, 91; A medusophilous actinian, UCHIDA, 162.

Two Hydromedusae of Mediterranean, RANSON, 125; Jelly-fish of Sea of Azov, PASPALEFF, 115.

List of Black Sea Coelenterates and Ctenophores, BORCEA, 9.

Corymorpha sarsi in Black Sea, STECHOW, 145.

Adriatic Hydroids, BROCH, 15.

Calycophorae of Tropical and S. Atlantic, LELOUP, 92.

W. Indian Gorgonaria, DUBROWSKY, 40A.

Scyphomedusae of S. Atlantic, STIASNY, 147.

S. African Hydroids, LELOUP, 94; Coelenterates of St. Lawrence Estuary, PREFONTAINE, 120.

Indian Ocean.—Coelenterates of the Gangetic Delta, SEIRELE, 143; *Siphonophora*, LELOUP, 93.

Indo-Pacific Distribution of Coelenterates, EKMEN, 43.

Pacific Ocean.—Coelenterate fauna of French Polynesia, SEURAT, 141; Great Barrier Reef Siphonophora, TOTTEN, 159; Philippine corals, THEIL, 156; Japanese *Stauromedusae*, UCHIDA & HANAOKA, 160; Japanese Hydroid, IWASA, 76; Siphonophores of Juan Fernandez, LELOUP, 89.

Arctic.—Bering Sea and Arctic Actinians, CARLGREN, 26; Hydroids of Kara and Barents Sea, WAGIN, 168; Medusae of Kara Sea, BERNSTEIN, 5.

Antarctic.—Siphonophores, MACKINTOSH, 101.

B.—FRESH WATER.

A new *Limnocoidea* from Johannesburg, JORDAAN, 79.

Japanese *Hydra*, KUWABARA, 88.

A jelly fish in Szechwan, LOVEGREN, 99.

Craspedacusta in pond at Dallas, Texas, CHEATUM, 27.

VARIATION AND PHYLOGENY.

Variation.—*Dictyonema*, BULMAN, 17; Rugose coral species, HILL, 68; Adriatic hydroids, BROCH, 15; Canal system of scyphomedusan, STIASNY, 149; Diurnal colour in *Linuche*, DARBY, 36.

Phylogeny of Rhizostomae, UCHIDA, 164; *Isograptus*, HARRIS, 61.

DISTRIBUTION.

1.—GEOGRAPHICAL.

Distribution of *Craspedacusta*, REISINGER, 127; DEJDAR, 38.

A.—MARINE.

Atlantic (including Mediterranean and Black Sea).—Fauna of the Baltic, REMANE, 128.

Scyphomedusae in Danish waters in 1933, KRAMP, 83.

North Sea Madreporaria p. 68, PAX, 116.

Suffolk Actiniaria, COLLINGS, 32.

Zoantharia of North Sea, PAX, 116.

Hydroids of Dutch coast, LELOUP, 91, 97.

Hydroids of Morocco, BILLARD, 6.

Hydroids of Villefranche, LELOUP, 95.

2.—GEOLOGICAL.

Fossil Japanese corals, YABE, 179.

Cainozoic.—Fossil corals from Fiji, HOFFMEISTER, 69; Miocene corals of Poland, DEMBIŃSKA-RÓZKOWSKA, 39; Corals from Scotland beds of Barbados, WELLS, 173; Eocene corals of Catalonia, SABARIS, 136; Eocene Corals from Cuba, WELLS, 171; Eocene corals of Jamaica, WELLS, 173.

Mesozoic.—A Turonian coral from Madagascar, COLLIGNON, 31; North American Cretaceous Corals, WELLS, 170; Upper Cretaceous corals of Jamaica, WELLS, 173; Genera of Jurassic Hydrozoa and Anthozoa, DACQUÉ, 34; New coral from Rikuzen, Japan, EGUCHI, 41.

Palaeozoic.—Permian corals of Sicily, GREGORIO, 53; U. Permian corals from Žažar, HERITSCH, 63; Upper Permian Corals of W. Serbia, HERITSCH, 64; A new Japanese Stromatoporoid, YABE & SUGIYAMA, 181; A new Permian Hydrozoan from Japan, YABE & SUGIYAMA, 182; Corals of Kinling Limestone, CHU, 28; Carboniferous Rugosa of the Czechoslovakian Carpathians, HERITSCH, 66; L. Carboniferous corals of Australia, HILL, 68; L. Carboniferous corals of S. Urals, VOJNOVSKY-KRIEGER, 166; M. Devonian Rugose Corals from the Urals, BULVANKER, 19; A new Lower Devonian Heliolitid from Bohemia, KETTNEROVÁ, 82; Gothlandian graptolites of Bohemia, BONČEK, 11; Gothlandian graptolites of Bohemia, BONČEK, 12; New Gothlandian graptolites from Bohemia, BONČEK, 13; Gotlandian Graptolites, HERITSCH, 65; *Monograptus* in German Silurian, HUNDT, 73; Peel Sandstone Anthozoa, LEWIS, 98; U. Silurian Graptolites of the Carnic Alps, PELTZMANN, 118; Silurian faunas of N. Greenland, POULSEN, 119A; Graptolites of Kromnitz, SCHWARZBACH, 139; Isograptidae of Victoria, HARRIS, 61; Ninety-one Ordovician and Silurian graptolites of the L. Yangtze Valley, HSÜ, 72; Graptolites of Victoria, KEBLE & HARRIS, 81; Oklahoma Graptolites, RUEDEMANN & DECKER, 134; Ordovician Texas graptolites, SELLARDS, 140; Cambrian Graptoloidea of Upper

Mississippi Valley, RUEDEMANN, 131; Palaeozoic plankton of N. America, RUEDEMANN, 132; Archaeocyathi from Cambrian of Laba river, Caucasus, VOLOGDIN, 167; New *Alveolites* from Eifelien of N. France, SMITH, 144A.

III.—SYSTEMATIC INDEX.

HYDROZOA.

Abyla haeckeli p. 331 figs., TOTTON 159.—*A. trigona* p. 20 figs., LELOUP 89.

Abylidae p. 331, TOTTON 159.

Abylopsis tetragona p. 55 fig., LELOUP 92.—*A. t.* p. 333 figs., TOTTON 159.

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Amphicaryon acaule p. 330, TOTTON 159.

Antenella p. 18, *secundaria* p. 19 figs., *diaphana* forma *typica* form n. p. 24, BROCH 15.

Bassia bassensis p. 339 figs., TOTTON 159.

Calycophorae p. 327, TOTTON 159.

Campaniclava cleodora p. 3, LELOUP 95.

Campanularia (*Eu-Campanularia*) *hincksi* (= *C. alta* Stechow) p. 87 figs.; *johnstoni* p. 93 f. *typica* form. n. p. 93, *crassa* form. n. p. 96 figs., BROCH 15.—*C. hincksi* p. 230 fig., BILLARD 6.

Campanulina tenuis p. 5 fig., LELOUP 97.—*C. tenuis* p. 5 fig., LELOUP 91.—*C. acuminata* Roscoff p. 8, TEISSIER 153.

Chelophyes gen. n. (*Diphyinae*) *appendiculata* p. 354, TOTTON Sci. Rep. Gt. Barrier Reef. Exped. 4 10 1932.—*C. contorta* p. 357 figs., TOTTON 159.

Chuniphyes multidentata p. 26, LÉLOUP 89.—*C. m.* p. 45, problematica p. 46 figs., LÉLOUP 92.

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Cordylophora caspia in Holland p. 2, LÉLOUP 91.—*C. caspia* p. 2, LÉLOUP 97.

Corymorpha sarsi in Black Sea p. 197, STECHOW 145.

Craspedacusta sowerbii, Dallas, Texas p. 528, CHEATUM 27.—*C. s.* monograph, DEJDAR 38.—*C. s.* in the Dropt R. p. 242 figs., FEYTAUD 45.—*C. s.* in Mayenne R. p. 85, GERMAIN 49.—*C. s.* p. 33 figs., REISINGER 127.—*C. s.* p. 250 figs., SYBRANDI 152.

Crystallophyes, amygdalina p. 53, LÉLOUP 92.

†*Cylindrotheca* gen. n. p. 66, *profunda* sp. n. Silurian p. 67 figs., EISENACK 42.

†*Dijectopora japonica* sp. n. Permian Rikuzen, Japan, YABE & EGUCHI Japan J. Geol. Geogr. Tokyo 11 3-4 1934 p. 172 figs.

Dimophyes arctica p. 29, LÉLOUP 92.—*D. a.* pp. 86, 98, MACKINTOSH 101.—*D. a.* p. 363, TOTTON 159.

Diphasia pinaster, pinnata p. 2 figs., PHILBERT 119.

Diphyes antarctica p. 98, MACKINTOSH 101.—*D. bojani* p. 11 figs., LÉLOUP 89.—*D. chamissonis* p. 13; *sieboldii* eudoxids p. 16, LÉLOUP 89.—*D. dispar* p. 346 fig; *bojani* p. 349 fig.; *chamissonis* p. 351 figs., TOTTON 159.

Diphyinae p. 345, TOTTON 159.

Dynamena cornicina p. 86 (= *Sertularia densa* Stechow) p. 86, BROCH 15.

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Eucheilota maculata p. 68, RANSON 121.

Eudoxia galathea p. 54, LÉLOUP 92.—*E. russelli* sp. n. (? eudox. cf. *Chelophyes contorta*) Gt. Barrier Reef p. 355 figs., TOTTON Sci. Rep. Gt. Barrier Reef Exped. 4 10 1932.—*E. r.* p. 25, LÉLOUP 92.—*E. tottoni* sp. n. Atlantic (? *Nectopyramis* sp.) p. 13 fig., LÉLOUP Bull. Mus. roy. d'Hist. nat. Belg. X No. 6 1934.

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Eutimalphes modesta p. 180, RANSON 122.

Eutimidae p. 69, RANSON 121.—*E.* p. 177, RANSON 122.

Eutonina scintilans p. 178, RANSON 122.

Galeolaria quadrivalvis p. 4 figs., LÉLOUP 89.

Galetta australis p. 1, LÉLOUP 90.—*G. chuni* p. 342 figs.; *turgida* p. 345, TOTTON 159.—*G. meteori* sp. n. Atlantic [*Lensia*] p. 15 figs., LÉLOUP Bull. Mus. roy. d'Hist. nat. Belg. X No. 6 1934.

Galettinae, p. 340, TOTTON 159.

Halecium halecinum p. 14 figs.; *lankesteri* p. 16 figs.; *mediterraneum* p. 18 figs., BROCH 15.—*H. liouvillei* sp. n. Agadir p. 227 figs.; *sibogae* var. *maroccanum* var. n. p. 229 figs., BILLARD Bull. Soc. Zool. Fr. 59 1934.

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Heteropyramis p. 52, *maculata* p. 52, LÉLOUP 92.

Hippopodius glabrus p. 6, LÉLOUP 92.—*H. hippopus* p. 330, TOTTON 159.

Hydra grisea p. 57, HOUZEAN DE LEHAIE 71.—*H. viridis* p. 59 figs., WARD 169.—*H. vulgaris attenuata* p. 643 figs.; *circumcincta* p. 644 figs. Japan, KUWABARA 88.—*H. vulgaris phase orientalis* p. 206, SEWELL 142.

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Muggiaea atlantica; *kochi* p. 555, RUSSELL 135.

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Solmundella sp. p. 99, MACKINTOSH 101.

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Veleva spirans p. 26, BRUCE 16.

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p. 65 figs.; *proarctus* sp. n. Ordovic. L. Yangtze p. 66 fig.; *hughesi* p. 67 figs.; *scharenbergi* p. 68 figs.; †*C. yangtzeensis* sp. n. Silurian L. Yangtze p. 69 figs.; *uniformis* sp. n. Ordovic. L. Yangtze p. 70 figs.; *gracilicornis* sp. n. Ordovic. L. Yangtze p. 71 figs., Hsü Acad. Sin. Monogr. Nat. Res. hist. geol. A4 1934.—†*C. scalaris* var. *normalis* p. 9 figs., POULSEN 119A.—†*C. uncinatus* sp. n. U. Ordovician p. 173 figs.; *subminimus* sp. n. L. Ordovician Victoria p. 174 figs., KEBLE & HARRIS Mem. Nat. Mus. Melbourne 8 1934.

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Aurellia aurita p. 211, KRAMP 83.—*A. limbata* p. 698 figs., UCHIDA 164.

Brochiella p. 17, (*Stenoscyphus*?) *hexaradiata* p. 15 figs., CARLGREN 24.

Cassiopea borbonica p. 31, ALVARADO 1.—*C. zamachana* and *C. frondosa* at Fort Jefferson p. 261, SMITH 144.

Chrysaora fulgida p. 388, STIASNY 147.—*C. hysocella* p. 211, KRAMP 83.

Cyanea lamarki, *capillata* p. 211, KRAMP 83.

Desmonema p. 389, *gaudichaudi* p. 389 fig.; *chierchiana* p. 390 fig., STIASNY 147.

Halicystus borealis p. 212 figs.; *steinigeri* p. 224 figs., UCHIDA & HANAOKA 160.

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Phacellophora ornata p. 391 figs., STIASNY 147.

Rhizostoma octopus p. 211, KRAMP 83.

Stauromedusae, UCHIDA & HANAOKA 160.

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TABULATA.

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ANTHOZOA.

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Bunodes japonica p. 30, UCHIDA 161.

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†*Campophyllum* sp. p. 54 fig., VOJNOVSKY-KRIEGER 166.

†*Caninia* aff. *cylindrica* fig.; *dorlodoti* fig.; *C.* sp. fig. p. 54, VOJNOVSKY-KRIEGER 166.

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Nectactis singularis p. 1, CARLGREN 25.

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Rhabdophyllia p. 76, *qualei* sp. n. U. Cret. Jamaica p. 76 figs., WELLS 173.

Sagartia luciae p. 28, FISCHER-PIETTE 47.—*S. l.* Saint Servan p. 23, FISCHER-PIETTE 46.

Sagartiomorphe carlgreni p. 32, CARLGREN 25.

Sagartiomorphidae fam. n. p. 33, CARLGREN 25.

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stainbrookii sp. n. Cret. Texas p. 51
figs., WELLS Bull. Amer. Paleont.
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VOJNOVSKY-KRIEGER 166.

CTENOPHORA.

Coelplana bockii p. 201, MOORE
109.

Mnemiopsis leidyi p. 10, COONFIELD
33.

INCERTAE SEDIS.

†*Archaeocyathus* sp. p. 504, VOLOGDIN
167.

†*Coelocyathus* sp. p. 505, VOLOGDIN
167.

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Ordovician N.Y. p. 76 fig., RUEDEMANN
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V. ECHINODERMA

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A. G. BRIGHTON, M.A.

CONTENTS.

| | PAGE |
|-------------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX | 9 |
| III. SYSTEMATIC INDEX | 12 |
| Holothurioidea | 12 |
| Echinoidea | 12 |
| Asteroidea | 19 |
| Ophiuroidea | 20 |
| Crinoidea | 21 |
| Machaeridia | 24 |
| Cystidea and Edrioasteroidea | 24 |
| Blastoidea | 24 |
| Incertae Sedis | 24 |

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II.—SUBJECT INDEX.

GENERAL.

Historical.—RANGE, 134.

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—HENNIG, **80**; Geology Australia: HOWCHIN, **83**; Geology Belgium: MAILLIEUX, **107**; British Palaeozoic Asterozoa: SPENCER, **150**.

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Biography: Obituary. — Bather: W. D. L., **100**.

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Classification and Nomenclature.—Spatangoida: BATHER **10** p. 836; *Cyclocystoides* "has its affinities with the Cystidea": BEGG, **13**; Collyritidae: BEURLEN, **19**; Triassic Crinoidea: BIESE, **20**; COULON, **44**; Cystidea and Carpoidea: PEHM, **47**; Lantern and

girdle in fossil Centrechinoida and Holoctypoida: HAWKINS, 76; Scutellidae: KLEINSORGE, 92; *Bothriocidaris*: MORTENSEN, 117 p. 162.

STRUCTURE.

Skeletal Anatomy.—Pedicellariae: ARETZ, 4; Plastron in Meridosternata: BATHER, 10; *Cyclocystoides*: BEGG, 13; *Ophiura*: BERRY, 17; Lantern and girdle in Echinoidea: HAWKINS, 76; Peristome, apical system and secondary radioles of *Tylocidaris* p. 398, pedicellariae of *Cidaris perornata* p. 403, cidarid lanterns p. 404, Jurassic pedicellariae p. 405: MORTENSEN, 115; Lantern and perignathic girdle in *Orthopsis*: SERRA, 147.

Reproductive Organs.—Gonadial spicules: AIYAR & MENON, 3.

PHYSIOLOGY.

General.—*Caudina chilensis*: TAO, 156.

Respiration.—Holothurioida: BERTOLINI, 18.

Chemical Constituents.—PHILIPSON, 133.

Experimental.—BOLIEK, 22; CHAIGNE, 24; CHESLEY, 32; CLOWES & KRAHL, 41; CREAC'H, 45; DAN, 46; FRIEDHEIM, 58; GERARD & RUBINSTEIN, 60; HARVEY, 73 & 74; HAYES, 77; HEIBRUNN, 79; LILLIE, 102; OHUYE, 129; RUBENSTEIN & GERARD, 138.

DEVELOPMENT.

Oviposition, Fertilization and Segmentation.—CHAIGNE, 24; HOADLEY, 81; *Temnopleurus hardwickii*: MOORE, M. M., 113.

Larval Stages.—*Salmaeis bicolor*: AIYAR, 2; Echinoderm compared with Tunicata: BARROIS, 8; HOVASSE, 82; *Temnopleurus hardwickii*: MOORE, M. M., 113; *Ophiocten* and *Ophiura*: THORSON, 158.

Post-larval Growth-stages.—*Salmaeis bicolor*: AIYAR, 2; *Ophiocten*: THORSON, 158.

Experimental Embryology.—BANK, 7; BATAILLON & SU, 9; CHESLEY, 32;

DORFMANN, 50; GODLEWSKI, 63; HARVEY, 73 & 74; HAYES, 77; MAXIA & GRIMALDI, 110; MOORE, A. R., 111; MOTOMURA, 119, 120, 121; REISS, 136; RUBENSTEIN & GERARD, 138; SPEK, 149; UBISCH, 163; VLÈS & GEX, 171; WATERMAN, 172.

ETHOLOGY.

Habitat.—PARENZAN, 130; *Caudina chilensis*: TAO, 156.

Environmental Effects.—*Echinus esculentus*: MOORE, H. B., 112.

Feeding Habits.—CLARK, 37.

Special Habits.—OHSHIMA & IKEDA, 127.

Sexual Dimorphism.—*Archaster typicus*: OHSHIMA & IKEDA, 127.

Hermaphroditism.—PASPALLEFF, 132; Ophiuroidea: THORSON, 158.

Autotomy and Regeneration.—FEDOTOV, 54.

Parasites and Commensals, etc.—Cirripede attached to living echinoid: GILTAY, 61; Algal parasite in *Echinus acutus*: MORTENSEN & ROSENVINGE, 118.

Movements and Locomotion.—Spermatozoa: GRAVE, 68.

Communities and Zones.—STEPHEN, 153; Greenland: THORSON, 157.

Geological Aspect.—Echinoderma as rock-builders: HADDING, 71.

VARIATION AND AETIOLOGY.

Variation in Form.—*Collyritidae*: BEURLIN, 19; JANSSEN, 84; MOORE, H. B., 112; OHSHIMA, 125.

Variation Teratological.—OHSHIMA, 124.

Phylogeny and Relationship.—Echinoderma, Tunicata and Vertebrata: BARROIS, 8; Spatangoida: BATHER, 10; BATHER & SPENCER, 12. *Collyritidae* and related families: BEURLIN, 19; Cystidea and Carpoidea: DEHM, 47; GISLÉN, 62; KLEINSORGE, 92; *Bothriocidaris*: MORTENSEN, 117 p. 162; *Pterotocrinus*: SUTTON, 155.

DISTRIBUTION.

GEOGRAPHICAL.

General.—TORTONESE, 161.

Atlantic Ocean.—Carribbean Area: CLARK, 35, 38, 39 & 40; ENGEL, 52; N. France: FISCHER, 56; N. France: FISCHER-PIETTE, 57; Caribbean Area: MORTENSEN, 117; North Sea: STEPHEN, 153; Venezuela: TORTONESE, 160.

Mediterranean Sea, etc.—ENGEL, 52; GALLO, 59; KOEHLER, 95; *Astropecten*: PARÉNZAN, 131; SEURAT, 148; Ligurian Sea: TORTONESE, 162.

Indian Ocean, Red Sea, etc.—Echinoidea: MORTENSEN, 117.

Pacific Ocean.—CHANG, 25 & 26; KAO, 90; Echinoidea: MORTENSEN, 117; OHSHIMA, 126; Ecuador: TORTONESE, 160.

Malaysia.—CLARK, 34 & 36; Hong Kong: HEDING, 78; Hong Kong: MORTENSEN, 116; Echinoidea: MORTENSEN, 117.

Southern Ocean.—BERNASCONI, 15; Australia: LIVINGSTONE, 104; Echinoidea: MORTENSEN, 117.

Arctic Ocean.—BERG, 14; Kara Sea: BERNSTEIN, 16; Nova Zembla: GORBUNOW, 65; Kara Sea: GORBUNOW, 66; *Auricularia antarctica*: MACKINTOSH, 106.

GEOLOGICAL.

Tertiary.—Jamaica Echini: ARNOLD & CLARK, 6; Cidaridae Australia: CHAPMAN & CUDMORE, 28.

Neogene.—*Chelonechinus*: BATHER, 10; N. Africa: DESIO, 48; Libya: DESIO, 49; Fiji: HAWKINS, 75; Italy: SERGIO, 144; Italy: VENZO, 168.

Pliocene.—Italy: CHECCHIA-RISPOLI, 30.

Miocene.—E. Russia: ARGAMAKOVA, 5; U.S.A.: BERRY, 17; Libya: CHIESA, 33; France: COTTREAU, 42; Italy: LIPPARINI, 103; Australia: STACH, 152; Colombia: TOLMACHOFF, 159; Asia Minor: VAUTRIN, 167.

Palaeogene.—Libya: AIRAGHI, 1; N. Africa: NEGRI, 123.

Oligocene.—Cuba: WEISBORD, 173.

Eocene.—Switzerland: JEANNET, 88; KÜHN, 16; Rhodes: VENZO, 169; Cuba: WEISBORD, 173.

Cretaceous.—Bulgaria: BONČEV, 23; Australia: CHAPMAN, 27; N. Africa: CHECCHIA-RISPOLI, 29 & 31; Nigeria: COTTREAU, 43; Germany: HÄNTZSCHEL, 72; Austria: JEANNET, 85 & 86; Balearic Islands: JEANNET, 87; France: LAMBERT, 97; France: LAMBERT & VALETTE, 99; Brazil: MAURY, 108 & 109; England: MORTENSEN, 115; S. France: MORTENSEN, 117; Germany: SCHÖNFELDER, 142; U.S.A.: SCOTT, 143; Sicily: SERRA, 145 & 146; France: VALETTE, 164 & 165; Cuba: WEISBORD, 173.

Jurassic.—Collyritidae: BEURLIN, 19; Italy: FABIANI & RUIZ, 53; Germany: FENTON & FENTON, 55; France: JEANNET, 89; France: LAMBERT, 98; England: MORTENSEN, 115.

Trias.—Crinoidea Brazil: BATHER, 11; Crinoidea: BIESE, 20; Austria: SCHNETZER, 141; Rhodes: VENZO, 170.

Palaeozoic.—Nama System, S.W. Africa: GÜRICH, 70; Asterozoa: SPENCER, 150.

Permian.—Timor: JANSEN, 84; Tunis: VALETTE, 166; Crinoidea, Sicily: YAKOVLEV, 178.

Permo-Carboniferous.—Japan: YABE & SUGIYAMA, 177.

Carboniferous.—U.S.A.: LAUDON, 101; Crinoidea U.S.A.: SUTTON, 155; Crinoidea British Isles: WRIGHT, 175; Blastoids Ireland: WRIGHT, 176.

Devonian.—Germany: DEHM, 47; N. America: GOLDRING, 64; U.S.A.: KIRK, 91; Crinoidea Germany: SCHMIDT, 140.

Silurian.—Australia: WITHERS & KEEBLE, 174.

Ordovician.—BATHER & SPENCER, 12; *Cyclocystoides* Scotland: BEGG, 13; GORTANI, 67; Korea: KOBAYASHI, 93 & 94; SPENCER & GROOM, 151.

Cambrian.—Kashmir: REED, 135;
Spain: SAMPELAYO, 139.

Phyllophorus cornus sp. n. Malaysia,
HEDING Hong Kong Nat. Suppl. 3
pp. 20–22 fig. iii 1–11.

Phyllophorus (*Urodemas*) *perspicillum*,
HEDING 78 p. 22 fig. iv.

Polychœira rufescens, CHANG 26 p. 40
fig. 20, pl. iii figs. 8–9.

Protankyra bidentata, CHANG 26 p. 33
fig. 17, pl. iii fig. 5.

Pseudocucumis intercedens, CHANG
26 p. 20 fig. 9, pl. ii figs. 5–6.

Psolus japonicus, OHSHIMA 126 p. 233
figs. 3–4.

Stichopus japonicus, CHANG 26 p. 4
fig. 1, pl. i figs. 1–2.

III.—SYSTEMATIC INDEX.

HOLOTHURIOIDEA.

Actinocucumis typica, CHANG 26
p. 21 fig. 10, pl. ii figs. 7–8.

Actinopyga obesa, CHANG 26 p. 7
fig. 2, pl. i fig. 3.

Aphelodactyla molpadioides var.
sinensis, CHANG 26 p. 31 fig. 16,
pl. iii fig. 4.

Auricularia antarctica, MACKINTOSH
106.

Caudina chilensis, CHANG 26 p. 29
fig. 15, pl. iii fig. 3; TAO 156.

- †*Chiridota* ? sp., TOLMACHOFF 159
p. 291 pl. xl fig. 1.

Colochirus crassus var. *dyscritus*
var. n. Malaysia, HEDING Hong Kong
Nat. Suppl. 3 pp. 16–20 figs. 1–2,
pl. ix.

Cucumaria vegae, OHSHIMA 126 p. 231
fig. 2.

Halodeima dicorona sp. n. Malaysia,
HEDING Hong Kong Nat. Suppl. 3
pp. 24–25 fig. v 1–9.

Holothuria cinerascens p. 12 fig. 5,
pl. i fig. 5; *lubrica* p. 10 fig. 4, pl. i
fig. 4; *maëbii* p. 9 fig. 3; *vagabunda*
p. 14 fig. 6, pl. i fig. 6, CHANG 26.

Leptosynapta inhaerens p. 38 fig. 19,
pl. iii fig. 7; *ooplax* p. 35 fig. 18,
pl. iii fig. 6, CHANG 26.—*L. inhaerans*,
coprolith of, FENTON & FENTON 55
p. 292 fig. 15.

†*Lumbricaria* probably holothuroid
coprolith, FENTON & FENTON 55.

Molpadia chinensis sp. n. North
Pacific Ocean, CHANG Contr. Inst.
Zool. Peiping 2 1 p. 26 figs. 13–14,
pl. iii fig. 2; *M. roretzii*, ID. p. 23 figs.
11–12, pl. iii fig. 1.

Pentacta (*Colochirus*) *quadrangularis*
p. 18 fig. 8, pl. ii figs. 3–4; *tuberculosus*
p. 16 fig. 7, pl. ii figs. 1–2, CHANG 26.

ECHINOIDEA.

Abatus cavernosus, TORTONESE 161
p. 160 pl. ix fig. 48.

Acanthocidaris curvatispinis, MORTEN-
SEN 115 p. 405 fig. 7f.

†*Acrocidaris minor*, JEANNET 89
p. 371. [Radiole.]

†*Acrosalenia pustulata*, HAWKINS 76
p. 629 figs. 12–13.

†*Agassizia camagueyana* sp. n.
Oligocene Cuba pp. 83–84 pl. ix
figs. 5–6; *caribbeana* sp. n. Eocene Cuba
pp. 74–76 pl. viii figs. 1–6, WEISBORD
Bull. Amer. Paleont. Ithaca 20 70c.

†*Alloma normanniae*, HAWKINS 76
p. 637 fig. 21, pl. lxviii fig. 32.

†*Amphiope bioculata* var. *bentivegnae*
var. n. Neogene Libya, DESIO Miss. Sci.
d. R. Accad. Italia Cufra 3 pp. 191–192
fig. 7, pl. xvi fig. 1; *A. bioculata*,
ID. p. 190 pl. xv fig. 1.

†*Anisaster gibberulus*, AIRAGHI 1 p. 71.

†*Anorthopygus* ? sp., JEANNET 86
p. 3 pl. i figs. 7–9, 19–21.

Arachnoides placenta, CHANG 25
p. 17 fig. 11, pl. iii figs. 3–4.—*A.*
zelandiae, TORTONESE 161 p. 144
pl. vii fig. 34, pl. viii fig. 36.

Araeosoma alternatum sp. n. Indian
Ocean p. 164, *owstoni* var. *nudum*
var. n. Malaysia p. 164, *parviungulatum*
sp. n. Malaysia p. 164, *splendens* sp. n.
Malaysia p. 164, *tessellatum* var.
carinatum var. n. Malaysia p. 163,
MORTENSEN Vidensk. Medd. naturh.
Foren. Kjøb. 98.

Arbacia dufresnii p. 112 pl. ii fig. 7,
spatuligera p. 113 pl. ii figs. 8-9,
TORTONESE 161.

Asthenosoma dilatatum sp. n., *A. varium* var. *album* var. n. Malaysia, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 165.

Astropyga magnifica sp. n. Florida, CLARK J. Wash. Acad. Sci. 24 pp. 52-53.

†*Aulechinus* gen. n. for type *A. grayae* sp. n. Ordovician Scotland, BATHER & SPENCER Ann. Mag. Nat. Hist. 13 pp. 557-558.

†*Balanocidaris migliorinii* sp. n. pp. 157-158 pl. xiii figs. 13 a-b, *subdorsata* sp. n. pp. 156-157 pl. xiii figs. 11-12, Trias Rhodes Island, VENZO Palaeontogr. ital. Pisa 34; *dorsata* p. 153 pl. xiii figs. 9 a-b with mut. *marginata* p. 154 pl. xiii fig. 8, *scrobiculata* p. 155 pl. xiii figs. 10 a-b, Id. [Radioles.]

†*Breynella baixadoleitensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 pp. 153-154 pl. xv figs. 2-3.

†*Brissoides formosus* p. 76, *pendulus* p. 75, AIRAGHI 1.—*B. melitensis*, VAUTRIN 167 p. 106 pl. xi fig. 5.—*B. sp.*, VENZO 169 p. 132 pl. xii fig. 8.

†*Brissopsis* (*Kleinia*) *crecenticus* var. *syriaca* var. n. Miocene Asia Minor, VAUTRIN Notes Mem. Haux-Comm. Republ. Franç. Syrie Liban 1 1933 pp. 104-106 pl. xii figs. 2-3.

Brissus brissus, TORTONESE 161 p. 165 pl. xiii figs. 55-57.

†*Brissus camagueyensis* sp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 76-78 pl. ix figs. 1-2.—*B. sp.*, COTTREAU 42 p. 548 pl. xxvii fig. 6.

Calveriosoma nom. n. for *Calveria* Thomson, MORTENSEN 117 p. 163.

†*Cardiolampas*, discussion of genus and species, BEURLEN 19 p. 115.

†*Cassidulus cubensis* sp. n. Cretaceous Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 28-30 pl. ii figs. 9-11.—*C. platypetalus* p. 144 pl. i figs. 3-5, *sphaeroides* pp. 144-145 pl. i figs. 6-8 spp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54.

†*Catopygus jeanneti*, WEISBORD 173 p. 30 pl. ii figs. 4-8.

Centrechinus setosus, HAWKINS 76 p. 622 figs. 4, 8.

†*Chelonechinus* gen. n. pp. 808, 860 for type *C. suvae* sp. n. Miocene? Fiji Islands, BATHER Bull. Geol. Soc. Washington 45 pp. 811-832, 861, figs. 1-12, pls. cviii-el; *C. ? javanensis* sp. n. Java, Id. pp. 809, 835, 862, fig. 16; *C. crassus*, Id. pp. 809, 832, 862 figs. 13-15.

†*Chondrocidaris clarkii* sp. n. Oligocene-Miocene Australia, CHAPMAN & CUDMORE Mem. Nat. Mus. Melbourne 8 pp. 141-142 pl. xiii figs. 15-17, pl. xv fig. 31.

Cidaris cidaris, MORTENSEN 115 p. 405 fig. 7c.—*C. cidaris*, HAWKINS 76 p. 620 fig. 2.

†*Cidaris clavigera* p. 98 pl. xiv fig. 40, *dixonii* p. 98 pl. xiv fig. 35, *intermedia* p. 97 pl. xiv fig. 33, *merceyi* p. 98 pl. xiv fig. 34, *C. sp.* p. 99 pl. xiv fig. 41, SCHÖNFELDER 142.—*C. aff. loveni*, WEISBORD 173 p. 39 pl. iii fig. 10.—*C. peronata*, MORTENSEN 115 p. 403 pl. xxii figs. 1-3.—*C. rennensis* pl. vi figs. 3-5, *C. sp.* [Radiole] pl. vi figs. 7-8, LAMBERT & VALETTE 99 p. 48.

†*Cidaris* (*Stereocidaris*) *reussi*, HÄNTZSCHEL 72 p. 107 pl. iv fig. 1. [Radiole.]

†*Cidaroid* Radioles, CHAPMAN & CUDMORE 28 p. 142 pl. xiv figs. 24-26.

†*Circopeltis senessei* sp. n. Cretaceous France, Lambert in LAMBERT & VALETTE Bull. Soc. géol. Fr. (5) 4 pp. 50-51 pl. vi figs. 11-12.

†*Cluniaster* gen. n. for type *C. rhennanus* sp. n. Cretaceous Austria, JEANNET Verh. schweiz. naturf. Ges. 114 1933 p. 370 and Abh. schweiz. paläont. Ges. 64 4 p. 6 fig. 2, pl. i figs. 3-6. [See Jeannet 68 in Zool. Rec. for 1933, in which also this genus and species were erected.]

Clypeaster humilis, TORTONESE 161 p. 142 pl. vii fig. 33.

†*Clypeaster aegyptiacus* var. *syrticus* var. n. Neogene Libya, DESIO Miss. sci. d. R. Accad. Italia Cufra 3 pp. 197-198 fig. 11, pl. xix fig. 1, pl. xx fig. 1.—*C. eurychorus* sp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54 p. 141 pl. i figs. 1-2.—*C. biarritzensis*, AIRAGHI 1 p. 68.

†*Clypeopygus habanensis* sp. n. Cretaceous Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 32-34 pl. iii figs. 1-3.

†*Codiopsis senessei* sp. n. Cretaceous France, Lambert in LAMBERT & VALETTE Bull. Soc. géol. Fr. (5) 4 p. 52 pl. vi figs. 13-15.—*C. ciae*, WEISBORD 173 p. 18 pl. i figs. 4-6.

Coelopleurus granulatus sp. n. p. 167, *undulatus* sp. n. Japan p. 166 with vars. *polymorphus* var. n. Japan p. 167 and *ruber* var. n. Malaysia p. 167, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98.

†*Coenholectypus cubae*, WEISBORD 173 p. 25 pl. i figs. 7-10.

†*Collyrites* (*Cardiopelta*) *bicordata* var. *baltica* var. n. p. 91 fig. 14b, *C. (C.) capistrata* mut. *antecedens* mut. n. p. 92 fig. 14c, Jurassic Europe, BEURLEN Palaeontographica Stuttgart 80; discussion of *Collyrites* with subgen. *Collyrites*, *Cardiopelta* and species, Id. p. 74.

†*Collyropsis* with *Procollyropsis* subg. n. for type *Disaster platypygus* Quenstedt p. 130, and *Collyropsis* subg. n. for *Spatangites carinatus* Leske p. 131, Jurassic Europe, BEURLEN Palaeontographica Stuttgart 80; discussion of genus and species, Id. p. 127.

†*Conulus albogalerus*, HAWKINS 76 p. 644 pl. lxx figs. 40-41.

†*Corthya* discussion of genus and species, BEURLEN 19 p. 140.

†*Cyclaster sterea* sp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54 pp. 149-150 pl. iii figs. 4-5.

†*Cyclolampas*, discussion of genus and species, BEURLEN 19 p. 58.

†*Cyphosoma elongatum* p. 98, *spatuliferum* p. 98 pl. xiv fig. 39, SCHÖNFELDER 142.

†*Cystechinus crassus*, holotype re-described and referred to *Chelonechinus*, BATHER 10 pp. 809, 832, 862, figs. 13-15.

Dendraster excentricus, GILTAY 61 p. 1 figs. 1-2.

Diadema savignyi, TORTONESE 161 p. 108 pl. ii fig. 4.—*D. setosum*, MORTENSEN 116 p. 5 pl. vii.

†*Diadema ? principeana* sp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 41-43 pl. iii figs. 11-13.

†*Diademopsis bowerbanki*, HAWKINS 76 p. 629 fig. 9.

†*Dicoptella desioi* sp. n. Palaeogene Libya, AIRAGHI Miss. Sci. d. R. Accad. Italia Cufra 3 p. 65 pl. v fig. 2.

†*Disaster* discussion of genus and species, BEURLEN 19 p. 118.

†*Discoidea dixonii*, HAWKINS 76 p. 644.

†*Discoides rahbergensis* sp. n. Cretaceous Austria, JEANNET, Verh. schweiz. naturf. Ges. 114 1933 p. 370 and Abh. schweiz. paläont. Ges. 64 pp. 4-5 pl. i figs. 10-18. [See Jeannet 68 in Zool. Rec. for 1933, in which also this species was erected.]

Echinarachnius mirabilis, TORTONESE 161 p. 149 pl. vii fig. 35.

†*Echinobrissus cubensis* sp. n. Cretaceous Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 27-28 pl. ii figs. 1-3.

Echinocardium cordatum, CHANG 25 p. 18 pl. iii figs. 5-6.

†*Echinocyamus subpiriformis* sp. n. Miocene France, COTTEAU Bull. Soc. géol. Fr. (5) 3 1933 p. 544 pl. xxvii fig. 3; *lebescontei*, Id. p. 543 pl. xxvii figs. 1-2.

Echinodiscus bisperforatus truncatus, TORTONESE 161 p. 152 pl. ix fig. 42.

Echinolampas ovata, TORTONESE 161 p. 159 pl. xi fig. 46.

†*Echinolampas camagüeyensis* sp. n. Oligocene Cuba pp. 81-83 pl. viii figs. 9-11, *nuevitasensis* sp. n. Eocene Cuba pp. 65-67 pl. vii figs. 4-6, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c; *E. cf. semiorbis*, Id. p. 81 pl. ix figs. 3-4.—*E. crameri*, AIRAGHI 1 p. 70 pl. v figs. 7-8.—*E. hemisphericus*, NEGRI 123 p. 246 pl. v fig. 1.—*E. bathystoma* p. 204 pl. ii fig. 7, *cassinellensis* p. 206, *scurellensis* p. 205 pl. ii figs. 5-6, SERGIO 144.

†*Echinolampas* (*Cylindrolampas*) *migliorinii* pp. 127-128 pl. xii fig. 7, *rhodiensis* pp. 128-130 pl. xii figs. 5-6, spp. n. Eocene Rhodes Island, VENZO Boll. Soc. geol. ital. 53.

†*Echinolampas* (*Cypholampas*) *sub-nucleus* sp. n. Eocene Rhodes Island, VENZO Boll. Soc. geol. ital. 53 pp. 125-6 pl. xii fig. 3; *E. (C.) dorsalis* p. 126, *ovalis* p. 124 pl. xii fig. 4, Id.

Echinometra lacunter, HAWKINS 76 p. 619 figs. 1, 5, pl. lxviii figs. 27-28.—*E. lacunter* p. 14 pl. iii figs. 11-14, *vanbrunti* p. 15 pl. ii figs. 7-8, TORTENESE 160.

†*Echinospatagus argilaceus*, *cordiformis*, BEURLIN 19 p. 168 figs. 42-43.

Echinothrix diadema, TORTENESE 161 p. 109 pl. ii figs. 5-6.

Encope californica p. 153 pl. viii figs. 38-39, pl. x figs. 43-44; *grandis* p. 153 pl. viii fig. 40, pl. ix fig. 41; *micropora* p. 154 pl. x fig. 45, TORTENESE 161.

†*Encope homala* sp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54 pp. 142-143 pl. ii fig. 1.

Euclidaris metularia, MORTENSEN 115 p. 405 fig. 7d.—*E. thoursii*, TORTENESE 160 p. 11 pl. ii figs. 4-5.—*E. tribuloides*, HAWKINS 76 p. 624 fig. 7.

†*Eupatagus siboneyensis* sp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 78-80 pl. viii figs. 7-8.

†*Galeropygus agariciformis*, BEURLIN 19 p. 154 fig. 34.

†*Gaultieria desioi* sp. n. Palaeogene Libya, AIRAGHI Miss. Sci. d. R. Accad. Italia Cufra 3 pp. 78-79 pl. v figs. 9-10.

†*Gauthieria spatulifera*, HAWKINS 76 p. 638 fig. 22.

Goniocidaris tubaria, MORTENSEN 115 p. 405 fig. 7e.

†*Goniocidaris mortenseni* Pliocene pp. 139-140 pl. xiv figs. 23 and 27; *murrayensis* Oligocene-Miocene pp. 138-139 pl. xiv figs. 20-22, spp. n. Australia, CHAPMAN & CUDMORE Mem. Nat. Mus. Melbourne 8; *pentaspinoso* p. 137 pl. xiv figs. 18-19, *prunispinosa* p. 135 pl. xiii figs. 12-14, Id.

†*Goniopygus supremus*, WEISBORD 173 p. 16 pl. i figs. 1-3.

†*Gymnocidaris guerangeri*, LAMBERT 98 p. 176 pl. vii figs. 9-10.—*G. pustulosa*, HAWKINS 76 p. 634 fig. 18.

†*Haimea*, W. Indian spp., ARNOLD & CLARK 6 p. 143.

Hapalosoma gemmiferum sp. n. Japan, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 165.

Heliocidaris crassispina, CHANG 25 p. 14 figs. 5-6, pl. ii fig. 8.

†*Hemiaster catandubensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 p. 155 pl. xvi figs. 2-3.—*H. madrugensis* pp. 35-37 pl. iii figs. 4-6, *siboneyensis* pp. 37-39 pl. iii figs. 7-9, spp. n. Cretaceous Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c; *H. cf. antillensis*, Id. p. 34 pl. ii figs. 12-14.—*H. fourneli* p. 10 pl. i fig. 8, *paronai* p. 8 pl. ii figs. 1-8, CHECCHIA-RISPOLI 31.

†*Hemiaster* (*Gregoryaster*) *coranguinum*, VAUTRIN 167 p. 108 pl. xii fig. 1.

†*Hemicidaris castillionensis* sp. n. p. 177 pl. vii figs. 3-4 [Radiole], *crenularis* var. *major* var. n. p. 177 pl. vii fig. 12 Jurassic France, LAMBERT Bull. Soc. géol. Fr. (5) 3 1933; *H. martini*, Id. p. 176 pl. vii figs. 13-15.—*H. intermedia*, HAWKINS 76 p. 633 figs. 16-17.

†*Hemipedina elegans*, LAMBERT 98 p. 179 pl. vii fig. 16.

Hemiphormosoma gen. n. for type *H. paucispinum* sp. n. Malaysia, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 162.

Heterocentrotus mammillatus p. 138 pl. vi fig. 30, *trigonarius* p. 139 pl. vi fig. 31, pl. vii fig. 32, TORTENESE 161.

†*Heterospatangus lefebvrei*, AIRAGHI 1 p. 76.

†*Holaster intermedius*, *laevis*, *subglobosus*, BEURLIN 19 p. 164 figs. 40-41, 45c.

†*Holactypus hemisphaericus*, HAWKINS 76 p. 642 fig. 26, pl. lxix fig. 36.—*H. nachtigali*, CHECCHIA-RISPOLI 31 p. 2 pl. i figs. 9-11, pl. ii figs. 9-12.

†*Homoeopetalus* gen. n. p. 146 for type *H. axiologus* sp. n. pp. 147-148 pl. ii figs. 2-3 Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54.

†*Hybocypus gibberulus*, BEURLIN 19 p. 156 fig. 36.

†*Hyposalenia wrighti*, HAWKINS 76 p. 635 fig. 19.

†*Jacksonaster acunai* p. 43 pl. iii fig. 14, pl. iv figs. 1-4; *sanchezi* p. 46 pl. iii fig. 15, pl. iv figs. 5-7, WEISBORD 173.

†*Koilospatangus cleopatrae*, AIRAGHI 1 p. 77 pl. v fig. 11.

†*Laganum cubanum* sp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c pp. 48–50 pl. iv figs. 8–10.

†*Lanieria lanieri*, WEISBORD 173 p. 20 pl. i figs. 11–20.

†*Leiocidaris sanfilippoi* sp. n. Cretaceous N. Africa, CHECCHIA-RISPOLI Boll. Com. geol. Ital. 57 3 1932 pp. 2–5 figs. 1–2, pl. i figs. 1–6.

†*Lepidocentroida* order n. for *Lepidocentridae* and *Echinothuridae*, MORTENSEN 117 p. 162.

†*Linthia desioi* sp. n. Palaeogene Libya, AIRAGHI Miss. sci. d. R. Accad. Italia Cufra 3 pp. 73–74 pl. v figs. 12–14; *L. navillei*, Id. p. 72.—*L. obesa* sp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54 pp. 148–149 pl. ii figs. 4–6.—*L. paronai*, CHECCHIA-RISPOLI 31 p. 11 pl. i figs. 5–7.

Lovenia elongata, TORTONESE 161 p. 169 pl. xi fig. 50.

†*Lovenia baixadoleitensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 p. 156 pl. xv fig. 1.—*L. gauthieri*, VAUTRIN 167 p. 102 pl. xi fig. 9.

†*Lovenilampas* gen. n. for type *Lovenia baixadoleitensis* Maury, Cretaceous Brazil, MAURY Amer. Mus. Nov. N.Y. 744 pp. 1–5 fig. 1.

Loxechinus albus, TORTONESE 161 p. 128 pl. iv figs. 19–20, pl. v fig. 21.

Lytechinus semituberculatus, TORTONESE 160 p. 12 pl. ii fig. 6.—*L. variiegatus atlanticus*, TORTONESE 161 p. 123 pl. iii fig. 13.

†*Macraster ibizaensis* sp. n. Cretaceous Balearic Islands, JEANNET Ecl. geol. helv. 27 p. 387.

†*Macropneustes dyscritus* p. 151 pl. iv figs. 1–2, *sinuosus* p. 152 pl. iv fig. 3, *stenopetalus* pp. 152–153 p. iv figs. 4–5, spp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54.—*M. brissoides*, AIRAGHI 1 p. 80.

Maretia ovata, TORTONESE 161 p. 168 pl. xiii fig. 58.

†*Melonechinoidea* order n. for *Palaeochinidae*, MORTENSEN 117 p. 162.

Meoma ventricosa, TORTONESE 161 p. 167 pl. xiii fig. 54.

†*Metalia dubia* pp. 153–154 pl. v figs. 4–6, *jamaicensis* pp. 154–155 pl. v figs. 1–3, spp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54.

†*Metaporinus* with subg. *Tithonia* and *Metaporinus*, BEURLIN 19 p. 101.

†*Micropedina olisiponensis*, COTTREAU 43 p. 325.

†*Miocidaris tenuispina* sp. n. Jurassic England, MORTENSEN Geol. Mag. London 71 pp. 394–398 figs. 1–3, pl. xxi fig. 2.

†*Miotoxaster colleanoi*, BONČEV 23 p. 226 pl. i figs. 10–12.

Moiria atropos, TORTONESE 161 p. 161 pl. xi fig. 49.

†*Myriastiches*, BATHER & SPENCER 12.

†*Nucleopygus lebescontei* var. *ancegavensis* var. n. Miocene France, COTTREAU Bull. Soc. géol. Fr. (5) 3 1933 pp. 545–546 pl. xxvii fig. 4.

Nudechinus scotiopremnus, TORTONESE 161 p. 127 pl. i fig. 3, pl. iii fig. 12.

†*Oligopygus sanchezi*, WEISBORD 173 p. 60 pl. vi figs. 4–15.

†*Opissaster thebensis*, AIRAGHI 1 p. 79.

†*Opissaster (Ditremaster) scillae*, VAUTRIN 167 p. 110 pl. xi fig. 7.

†*Orbignyana quenstedti* sp. n. Jurassic Europe, BEURLIN Palaeontographica Stuttgart 80 pp. 49–50 fig. 2c; discussion of *O.* and species, Id. p. 47.

†*Orthopsis sanfilippoi*, SERRA 147.

†*Palthemiasaster ibericus* sp. n. Cretaceous Balearic Islands, JEANNET Ecl. geol. helv. 27 p. 388.

†*Paracidaris lagorgettei* sp. n. Jurassic France, LAMBERT Bull. Soc. géol. Fr. (5) 3 1933 p. 173 pl. vii figs. 5–7.—*P. florigemma*, MORTENSEN 115 p. 403 fig. 7a.

†*Paradoxechinus bardini*, COTTREAU 42 p. 541 pl. xxvi fig. 1.

Paraphormosoma gen. n. for type *Phormosoma alternans* de Meijere, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 163.

Parasalenia gratiosa, TORTONESE 161 p. 132 pl. v figs. 26-27, pl. vi fig. 28.

†*Paraster camagueyensis* pp. 68-70 pl. vii figs. 9-11, *cubitabellae* pp. 72-74 pl. vii figs. 15-16, *nuevitasensis* pp. 67-70 pl. vii figs. 7-8, *pastelilloensis* pp. 70-72 pl. vii figs. 12-14, spp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c.

†*Pauropygus* cf. *clarki*, WEISBORD 173 p. 57 pl. vi figs. 1-3.—*P.* a synonym of *Haimea*, ARNOLD & CLARK 6 p. 143.

†*Pedina salteri*, HAWKINS 76 p. 627 fig. 10.

†*Pelanechinus* sp., MORTENSEN 115 p. 405 pl. xxii fig. 4.

†*Pericosmus agassizi*, VAUTRIN 167 p. 111 pl. xi fig. 8.

Peronella lesueurii, CHANG 25 pl. 16 fig. 10, pl. iii figs. 1-2.

†*Peronella caribbeana* pp. 52-53 pl. v figs. 7-9, *cubae* pp. 53-54 pl. v figs. 4-6, *quinquenodulata* pp. 50-51 pl. v figs. 1-3, spp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c.

Phormosoma placenta var. *africana* var. n. S. Africa, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 162.

Phyllacanthus imperialis, TORTONESE 161 p. 102 pl. i fig. 1.

†*Phyllacanthus duncani* sp. n. Oligocene-Pliocene Australia, CHAPMAN & CUDMORE Mem. Nat. Mus. Melbourne 8 pp. 131-133 pl. xii figs. 7-9, pl. xv fig. 33.

†*Phymopedina marchamensis*, HAWKINS 76 p. 632 fig. 15.

†*Phymosoma mortenseni* sp. n. Cretaceous N. Africa, CHECCHIA-RISPOLI Boll. Com. geol. Ital. 57 3 1932 pp. 11-15 figs. 4-6, pl. ii figs. 7-19.—*P. koenigi*, HAWKINS 76 p. 638 figs. 23-24, pl. lxviii fig. 33.

Pilematechinus, BATHER 10 p. 850.

Plagiobrissus grandis, TORTONESE 161 p. 163 pl. xi fig. 51, pl. xii figs. 52-53.

†*Plagiobrissus* sp., COTTREAU 42 p. 546 pl. xxvii fig. 5.

†*Plegiocidaris raibliana* var. *rhodiensis* var. n. Trias Rhodes Island, VENZO Palaeontogr. ital. Pisa 34 pp. 159-160 pl. xiii figs. 14-15; *P. raibliana*,

Id. p. 158 pl. xiii figs. 16-18 [Radioles].—*P. elegans*, MORTENSEN 115 p. 403 fig. 7b.

†*Plesiechinus ornatus*, HAWKINS 76 p. 640 fig. 25D, pl. lxix fig. 34.

Plexechinus, BATHER 10 p. 852.

Podophora atrata, TORTONESE 161 p. 137 pl. vi fig. 29.

Porocidaris sibogae sp. n. Malaysia, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 166.

Prionocidaris baculosa, TORTONESE 161 p. 103 pl. i fig. 2.

†*Prionocidaris scoparia* sp. n. Oligocene-Miocene Australia, CHAPMAN & CUDMORE Mem. Nat. Mus. Melbourne 8 pp. 134-135 pl. xii figs. 10-11, pl. xv figs. 28-30.

†*Procollyropsis* subg. n. see *Collyropsis*.

†*Proholaster* discussion of genus and species, BEURLIN 19 p. 98.

†*Psammechinus desioi* sp. n. Paleogene Libya, AIRAGHI Miss. Sci. d. R. Accad. Italia Cufra 3 pp. 64-65 pl. v fig. 1.—*P. macrostomus* sp. n. Pliocene Italy, CHECCHIA-RISPOLI Boll. Com. geol. Ital. 57 12 1933 pp. 1-5 pl. figs. 1-8.—*P. aegyptiacus* p. 235, *coronalis* p. 234, CHIESA 33.—*P. bouryi*, COTTREAU 42 p. 542 pl. xxvi figs. 2-4.

Pseudechinus magellanicus, TORTONESE 161 p. 122 pl. iii figs. 10-11.

†*Pseudodiadema pseudodiadema*, HAWKINS 76 p. 631 fig. 14, pl. lxviii fig. 30.—*P. variolare*, SCHÖNFELDER 142 p. 98 pl. xiv fig. 38.

†*Pseudodiscoidea cylindrica*, HAWKINS 76 p. 643 pl. lxix fig. 37, pl. lxx figs. 38-39.

†*Pseudoechinoidea* subclass n. for *Bothriocidaris*, MORTENSEN 117 p. 162.

†*Pygaster* cf. *semisulcatus*, HAWKINS 76 p. 642 fig. 25 A-C, pl. lxix fig. 35.

†*Pygomalus* discussion of genus and species, BEURLIN 19 p. 67.—*P. pseudoringens*, LAMBERT 98 p. 179 pl. vii fig. 17.

†*Pygorhytis*, discussion of genus and species, BEURLIN 19 p. 51.

†*Pyrina carcharica*, LAMBERT & VALETTE 99 p. 54 pl. vi figs. 1-2.—*P. desmoulinsii*, HAWKINS 76 p. 645 pl. lxx fig. 42.

†*Rhabdocidaris cartieri* p. 175 pl. vii fig. 8, *R. copeoides* var. *pseudothurmanni* p. 174 pl. vii figs. 1-2, var. *tricostata* p. 175 fig. 1, LAMBERT 98. [Radioles.]

Rhyncholampas pacifica, TORTONESE 161 p. 158 pl. xi fig. 47.

†*Rhynchopygus punctatus*, ARNOLD & CLARK 6 p. 146 pl. i figs. 9-11.

†*Rispolia subtrigonata*, SERRA 146.

Rotula deciesdigitata, TORTONESE 161 p. 156 pl. viii fig. 37.

Salenia unicolor sp. n. Japan, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 166.

†*Salenia lamberti* sp. n. Cretaceous N. Africa, CHECCHIA-RISPOLI Boll. Com. geol. Ital. 57 3 1932 pp. 6-11 fig. 3 pl. ii.

Salenocidaris brachygnatha sp. n. Pacific Ocean p. 166, *hastigera* var. *acuminata* var. n. p. 166, *S. incrassata* sp. n. Malaysia p. 166, *profundi* var. *occlusa* var. n. Tristan da Cunha p. 165, MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98.

Salmacis bicolor, AIYAR 2; AIYAR & MENON 3.—*S. rubricincta*, CHANG 25 p. 14 pl. ii fig. 7.

†*Sanchezaster habanensis*, BATHER 10 p. 858 fig. 18.

†*Schizaster* aff. *eurynotus* p. 114 pl. xi fig. 4, *S. parkinsoni* p. 113 pl. xi figs. 1-3, VAUTRIN 167.

†*Schizobrissus damiani* sp. n. Eocene Switzerland, JEANNET Ecl. geol. helv. 27 p. 389.

†*Scutella camagueyana* pp. 56-57 pl. v figs. 13-14, *cubae* pp. 55-56 pl. v figs. 10-12, spp. n. Eocene Cuba, WEISBORD Bull. Amer. Paleont. Ithaca 20 70c.—*S. checchiai* var. *occidentalis* var. n. p. 193 fig. 8, pl. xvii fig. 1; *stefaninii* var. *syrtica* var. n. pp. 194-195 fig. 10, pl. xviii fig. 1; Neogene Libya, DESIO Miss. Sci. d. R. Accad. Italia Cufra 3; *S. bricchettii* p. 195, *chechchiai* p. 192, *forumjuliensis* p. 193 fig. 9, pl. xvii fig. 2, Id.—*S. cf. bonali* p. 236, *paulensis* p. 235, CHIESA 33.—*S. circularis* p. 544 pl. xxvi fig. 9, *producta* p. 545 pl. xxvi figs. 7-8, COTTREAU 42.

†*Sismondia logotheti* p. 67 pl. v figs. 15-18, *saemanni* p. 68, AIRAGHI 1.—*S. aff. logotheti*, VAUTRIN 167 pl. xi fig. 6.

†*Spatangus baixadoleitensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 p. 156 pl. xvi fig. 1.

Sperosoma antillense Caribbean Area, *crassispinum* Malaysia, *tristichum* Malaysia, spp. n., MORTENSEN Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 163.

†*Spherotiaris quenstedti*, LAMBERT 98 p. 176 pl. vii fig. 11. [Radiole.]

†*Stegaster cotteau*, BATHER 10 p. 856 fig. 17.

†*Stereocidaris australiae*, CHAPMAN & CUDMORE 28 p. 127 pl. xii figs. 1-6, pl. xv figs. 32, 34-36.—*S. herthae*, SCHÖNFELDER 142 p. 98 pl. xiv fig. 37 [Radiole].—*S. sceptrifera*, LAMBERT & VALETTE 99 p. 49 pl. vi figs. 9-10.

Stereopneustes, BATHER 10 p. 854.

Sternopatagus sinensis sp. n. China Sea, BATHER Bull. Geol. Soc. Amer. Washington 45 pp. 847-8; *S. sibogae*, Id. p. 853.

†*Stirechinus minor* var. *couffoni* var. n. Miocene France, COTTREAU Bull. Soc. géol. Fr. (5) 3 1933 pp. 542-543 pl. xxvi figs. 5-6.

†*Stomechinus robinaldinus*, HAWKINS 76 p. 628 fig. 11, pl. lxviii fig. 29.

Stomopneustes variolaris, AIYAR & MENON 3.

Strongylocentrotus dröbachiensis var. *granularis* p. 130 pl. v figs. 22-23, var. *neglectus* p. 130 pl. v figs. 24-25, TORTONESE 161.—*S. intermedius*, OHSHIMA 125.—*S. pulcherrimus*, CHANG 25 p. 15 figs. 7-9, pl. i fig. 3, pl. ii fig. 9.—*S. sachalinicus*, OHSHIMA 126 p. 228 fig. 1.

†*Tarphypygus notabilis*, WEISBORD 173 p. 63 pl. vii figs. 1-3.

Temnopleurus hardwickii p. 11 figs. 1-3, pl. i fig. 1, pl. ii figs. 1-2; *toreumaticus* p. 12 pl. i fig. 2, pl. ii figs. 3-6, CHANG 25.

†*Tetradiscus fuchsi*, DESIO 49 p. 192 pl. xvi fig. 2.

†*Tetragramma brongniarti*, HAWKINS 76 p. 636 fig. 20, pl. lxviii fig. 31.

†*Thagastea wetterlei*, AIRAGHI 1 p. 66 pl. v figs. 3-6.

†*Tithonia houdardi* sp. n. Jurassic France, LAMBERT Bull. Soc. géol. Fr. (5) 3 1933 p. 179 pl. vii fig. 18.

Toxopneustes roseus, TORTONESE 161 p. 124 pl. iii fig. 14, pl. iv figs. 15-18.

†*Triadocidaris subsimilis*, VENZO 170 p. 151 pl. xiii figs. 7a-b.

†*Triplacidia van-den-heckeï*, KÜHN 96 p. 129.

Tripneustes esculentus, HAWKINS 76 p. 623 fig. 6.

†*Tylocidaris clavigera*, MORTENSEN 115 p. 393 figs. 4-6, pl. xxi fig. 1.—*T. vezillifera*, SCHÖNFELDER 142 p. 98 pl. xiv fig. 36 [Radiole].

†*Typocidaris baumbergeri* sp. n. Cretaceous Austria, JEANNET Abh. schweiz. paläont. Ges. 64 4 pp. 1-3 fig. 1, pl. i figs. 1-2.—*T. corbarica*, LAMBERT & VALETTE 99 p. 49 pl. vi fig. 6.

Urechinidae, diagnosis and discussion, BATHER 10 p. 842.

Urechinus discussion and diagnosis, lectoholotypes of *U. agassizi* and *naresianus* chosen, BATHER 10 pp. 843-849; *U. wyvillei*, Id. p. 850.

†*Valsalenia* gen. n. for type *Salenia garumnensis* Valette Cretaceous (Lower Danian) France, MORTENSEN. Vidensk. Medd. naturh. Foren. Kjøb. 98 p. 165.

†*Victoriaster jamaicensis* sp. n. Tertiary Jamaica, ARNOLD & CLARK Mem. Mus. Comp. Zool. Cambridge Mass. 54 p. 150 pl. iii figs. 1-3.

†*Zuffardia cerulli* sp. n. Cretaceous N. Africa, CHECCHIA-RISPOLI Boll. Com. geol. Ital. 58 9 1933 pp. 4-8 pl. i figs. 1-4.

ASTEROIDEA.

Anthenea aspera, MORTENSEN 116 p. 8 pls. ii, iii.

Archaster typicus, OHSHIMA & IKEDA 127 & 128.

†*Asteriaceros* gen. n. p. 215 for type *Asterias stellifera* Goldfuss pp. 207-215 figs. 1-10; *A. pustulatum* sp. n. p. 215 footnote, Cretaceous France, VALETTE Bull. Soc. Sci. hist. nat. Yonne 86 1933.

Asterias rubens, FEDOTOV 54.

†*Asterias*? *huntleyi* sp. n. Miocene S. America, TOLMACHOFF Ann. Carnegie Mus. Pittsburgh 23 pp. 289-290 pl. xxxix figs. 37-49, pl. xlii figs. 32-34.

Asterina orthodon, MORTENSEN 116 p. 8 pl. i fig. 4.

Astropecten irregularis with vars. *irregularis*, *pentacanthus*, *serratus*, ENGEL 52.—*A. aurantiacus* p. 219 figs. 1c, 10; *bispinosus* p. 211 figs. 1b, 6-7; *irregularis* var. *pentacanthus* p. 216 figs. 1f, 8-9; *A. jonstoni* p. 207 figs. 1d, 4; *myosurus* p. 203 figs. 1a, 2-3; *spinulosus* p. 209 figs. 1e, 5, PARENZAN 131.

†*Belaster simplex* sp. n. Ordovician England, SPENCER & GROOM Geol. Mag. London 71 pp. 233-235 fig. 1, pl. xii fig. 4.

†*Caractacaster yarraensis* sp. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46 pp. 223-225 figs. 2, 4, pl. x figs. 1-2.

†*Goniaster* cf. *mammillata* p. 101 pl. xv figs. 46-47, *G.* sp. p. 100 pl. xv fig. 45, SCHÖNFELDER 142.

†*Hudsonaster australis* sp. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46 pp. 222-223 figs. 1, 3, pl. x fig. 6.

Hydrasterias richardi, GALLO 59.

Luidia maculata, MORTENSEN 116 p. 5 pl. v.

†*Metopaster parkinsoni* p. 100 pl. xv fig. 44, *tumidus* p. 100 pl. xv fig. 43, SCHÖNFELDER 142.

Nidorellia armata, TORTONESE 160 p. 8 pl. i figs. 1-2, pl. ii fig. 3.

Odinia antillensis sp. n. West Indies, CLARK Smithson. Misc. Coll. 91 14 pp. 1-3 pl. i.

†*Palasterina flemingtonensis* sp. n. pp. 231-232 fig. 7, pl. xi fig. 3; *stachi* sp. n. pp. 232-233 pl. xi figs. 4, 6; *umbonata* sp. n. pp. 233-234 pl. x fig. 4, Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46; *P.* sp., Id. p. 230.

Parasterina troungtoni sp. n. W. Australia, LIVINGSTONE Rec. Aust. Mus. Sydney 19 pp. 179-180 pl. xviii figs. 1-6

†*Petraster angustior* sp. n. pp. 227-228 fig. 6, pl. xii figs. 4-5; *richi* sp. n. p. 228, Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46; *P. smythi*, Id. p. 228 pl. xii figs. 1-2.

Phataria unifascialis, TORTONESE 160 p. 7 pl. iii fig. 9.

†*Promopalaeaster meridionalis* var. *parvior* var. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46 pp. 226-227 pl. x fig. 5; *P. meridionalis*, Id. p. 225 fig. 5, pl. xii fig. 7.

Pseudarchaster boardmani sp. n. New South Wales, LIVINGSTONE Rec. Aust. Mus. Sydney 19 pp. 177-178 pl. xviii figs. 7-11.—*P. spatuliger* sp. n. Malaysia, MORTENSEN Hong Kong Nat. Suppl. 3 pp. 6-8 figs. 1-4, pl. i figs. 1-2.

†*Salteraster biradialis* sp. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46 p. 237 figs. 9-10, pl. xi fig. 5; *selwyni*, Id. p. 235 pl. xi figs. 1-2.

†*Schuchertia junori* pp. 238-239 pl. x fig. 3, *macrarta* pp. 239-240 fig. 8 pl. xii fig. 3 spp. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46.

†*Stenaster obtusus*, SPENCER 150 p. 452 fig. 294A.

†*Urasterella creswelli* sp. n. Silurian Australia, WITHERS & KEEBLE Proc. Roy. Soc. Vict. 46 pp. 234-235 pl. xii fig. 6.

OPHIUROIDEA.

†*Amphiophiura aenigma* sp. n. Miocene E. Russia, ARGAMAKOVA C.R. Acad. Sci. U.R.S.S. Leningrad 4 pp. 350, 352.

†*Aspidosoma roemeri*, SPENCER 150 p. 438.

Astroglymma sculptum, MORTENSEN 116 p. 5 pl. vi.

Astrospartus arborescens, SEURAT 148.

†*Bohemura groomi* sp. n. Ordovician England, Spencer in SPENCER & GROOM Geol. Mag. London 71 p. 232 pl. xii figs. 1-2.—*B.* p. 472 with *B. granifer* p. 479 figs. 311-313, pl. xxx figs. 5-6; *groomi* p. 476 figs. 291a, 296, 307-310, pl. xxx figs. 1-4; *jahni* p. 479 figs. 305-306, SPENCER 150.

†*Cheiropteraster* p. 439 with *C. giganteus* p. 443 figs. 283a, 284, 286-289, pl. xxix fig. 4, SPENCER 150.

†*Drepanaster* p. 492 with *D. grayae* sp. n. Carboniferous Devon, SPENCER Palaeontogr. Soc. (Monog.) London 1933 pp. 493-494 fig. 321, pl. xxxii figs. 1-4; *scabrosus*, Id. pl. xxix fig. 6, pl. xxxii figs. 6-7.

Euryale purpurea sp. n. Malaysia, MORTENSEN Hong Kong Nat. Suppl. 3 pp. 9-10 figs. 5-6, pl. iv.

†*Loriolaster* p. 439 with *L. mirabilis* p. 448 figs. 283b, 285, 290, pl. xxix fig. 5, SPENCER 150.

Ophiacantha setosa, KOEHLER 95 pl.

†*Ophiacantha* with *Ophioglyphoida* subgen. n. for type *O. fosteri* sp. n. Cretaceous Australia, CHAPMAN Proc. Roy. Soc. Vict. 46 pp. 195-199 pl. vii.

Ophiactis sinensis sp. n. Malaysia, MORTENSEN Hong Kong Nat. Suppl. 3 pp. 11-14 figs. 7-9, pl. i fig. 3.—*O. virens*, KOEHLER 95 pl.

Ophiocten sericeum, THORSON 158 p. 4 figs. 1-8 pls. i, iii.

†*Ophiocten miocaenicum* sp. n. Miocene E. Russia, ARGAMAKOVA C.R. Acad. Sci. U.R.S.S. Leningrad 4 pp. 349, 352.

†*Ophioglyphoida* subg. n. see *Ophiacantha*.

Ophonereis annulata, TORTONESE 160 p. 10 pl. iii fig. 10.

Ophiothrix quinquemaculata, KOEHLER 95 pl.—*O. exigua*, MORTENSEN 116 p. 10.

Ophiura sarsii p. 98 figs. 2-3 pls. v-vi, *texturata* p. 72 fig. 9 pls. iii-iv, BERRY 17.—*O. albida*, KOEHLER 95 pl.—*O. robusta*, THORSON 158 p. 17 figs. 9-11, pl. ii.

†*Ophiura marylandica* sp. n. Miocene U.S.A., BERRY John Hopkins Univ. Stud. Geol. Baltimore 11 pp. 35-72 figs. 1, 5-8 pls. i-ii.

†*Protaster piltonensis* sp. n. Carboniferous Devon, SPENCER Palaeontogr. Soc. (Monog.) London 1933 pp. 469-471 figs. 303a, 304, pl. xxxiii fig. 1; *bicatenulata* p. 471 figs. 303b-c; *salteri* p. 464 figs. 291b, 295, 300-302, pl. xxxi figs. 3-8, pl. xxxii fig. 8; *sedgwickii* p. 457 figs. 297-299, pl. xxix fig. 7, pl. xxxi figs. 1-2, pl. xxxii fig. 5, Id.—*P. diagnosis* p. 232, *P. salteri* p. 233 pl. xii fig. 3, SPENCER & GROOM 151.

Quironia gen. n. for type *Q. johnsoni* sp. n. West Indies, CLARK Smithsonian. Misc. Coll. 91 13 pp. 1-3 pl. i figs. 1-2.

†*Taeniaster* p. 483 with *T. beneckeii* p. 492 pl. xxx fig. 7, *fimbriata* p. 491 pl. xxxi fig. 10, *spinatus* p. 488 figs. 291c, 292-293, 315-320, pl. xxxi fig. 9, SPENCER 150.

†*Urosoma hirudo*, SPENCER 150 p. 437
figs. 281–282 pl. xxix figs. 1–3.

CRINOIDEA.

†*Abrotocrinus angustatus* sp. n. Carboniferous Scotland, WRIGHT Geol. Mag. London 71 pp. 252–253 figs. 22–24; pl. xiii figs. 4–6.

†*Acanthocrinus heroldi* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 119–121 fig. 27, pl. xxi fig. 1; *A. rex*, Id. p. 118 pl. xxiii.

†*Actinocrinus* sp., VALETTE 166 p. 99 fig. 14.

†*Amphorocrinus* sp. indet., YABE & SUGIYAMA 177 p. 349 pl. xlv figs. 1–5.

†*Antihomocrinus* gen. n. for type *Homocrinus tenuis* Bather p. 70; *A. armatus* sp. n. pp. 79–80 fig. 16, pl. xviii fig. 3 Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163.

†*Aorocrinus iola* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City 15 2 1933 pp. 49–51 pl. ii figs. 7–8.

†*Arthroacantha* ? *claviger* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 49–51 fig. 7b, pl. vi fig. 1.

†*Bactrocrinus jaekeli* pp. 56–58 fig. 9a, *B. ? trabcicus* pp. 58–59 fig. 9b, pl. xi fig. 2, spp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163.

†*Balanocrinus diaboli*, VENZO 169 p. 123 pl. xii figs. 1–2.

†*Basleocrinus cryptobasalis* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa 34 p. 281 pl. xix figs. 14a–c.

†*Botryocrinus reimanni* sp. n. Devonian U.S.A., GOLDRING Bull. Buffalo Soc. Nat. Sci. 15 pp. 193–194 pl. ii figs. 8–12.

†*Botryocrinus* (*Bathericrinus*) *ericus* sp. n. pp. 94–96 fig. 21, pl. xiii fig. 1, pl. xiv fig. 1; *hystrix* sp. n. pp. 92–94 fig. 20a–c, pl. xiii fig. 2, pl. xvi fig. 2, pl. xviii fig. 1b pars., pl. xxx; *spaciosus* sp. n. pp. 96–97 fig. 20d pl. iii fig. 4; *B. (B.) ? semipinnulatus* sp. n. pp. 97–99 fig. 22, pl. xiv fig. 2, Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163.

†*Bourgueticrinus ellipticus* p. 101 pl. xv figs. 48–49, *hagenowii* p. 102, *turris* p. 102 pl. xv fig. 50, SCHÖNFELDER 142.

†*Cactocrinus imperator* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City 15 2 1933 pp. 51–52 pl. ii fig. 9, pl. iii fig. 1.

†*Calycanthocrinus decadactylus* var. *lata* var. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 p. 31 pl. i fig. 4; *C. decadactylus*, Id. p. 28 fig. 3, pl. xxvii fig. 2.

†*Cibolocrinus nodosus* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa 34 p. 278 pl. xix figs. 16a–c.

†*Codiacrinus schultzei*, SCHMIDT 140 p. 71 fig. 14, pl. vii figs. 1–2, pl. xxvii fig. 1.

†*Coenocrinus* gen. n. for types *C. elegans* pp. 94–95 figs. 2a–b and *C. solignaci* p. 95 figs. 3a–d Permian Tunis, VALETTE Mém. Serv. Carte Géol. Tunisie N.S. 1.

†*Corocrinus* ? *calypso*, GOLDRING 64 p. 186 pl. i figs. 8–10.

†*Corynecrinus* gen. n. for type *C. romingeri* sp. n. Devonian U.S.A., KIRK Proc. U.S. Nat. Mus. 83 pp. 1–7 pl. i.

†Crinoid genus indet., BATHER 11 p. 237 fig. 1.

†*Cromyocrinus geminatus*, WRIGHT 175 p. 243 figs. 1–2, pl. xiii figs. 1–3.

†*Ctenocrinus malcontractus* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 53–55 fig. 8b, pl. vi fig. 2; *C. gracilis*, Id. p. 52 fig. 8a.

†*Culicocrinus spinatus*, SCHMIDT 140 p. 47 pl. v fig. 1.

†*Culmicrinus thomasi* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City 15 2 1933 pp. 67–68 pl. vi figs. 5–6.

†*Cyathocrinus berkaloffi* p. 98 figs. 12a–c, *permiensis* pp. 91–94 figs. 1a–f, spp. n. Permian Tunis, VALETTE Mém. Serv. Carte Géol. Tunisie N.S. 1; *C. goliathus* p. 97 fig. 11, *indicus* p. 96 figs. 8–9, *kattaensis* p. 97 fig. 10, *virgalensis* p. 95 figs. 4–7, Id.

†*Cyttarocrinus rauffi* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 45–46 fig. 6, pl. xxi fig. 2.

†*Decadocrinus fifensis* sp. n. Carboniferous Scotland, WRIGHT Geol. Mag. London **71** pp. 247–250 figs. 6–18, pl. xiv figs. 5, 7; *D.?* sp., Id. p. 250 pl. xiv fig. 4.—*D. douglassi*, LAUDON **101** p. 68 pl. v fig. 6, pl. vii fig. 7.

†*Diamenocrinus opitzi* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 121–123 pl. xxxiii.

†*Dichocrinus campto* pp. 56–58 pl. ii fig. 10, pl. vii figs. 1–2; *multiplex* pp. 54–56 pl. iv fig. 1, spp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933; *bozemanensis*, Id. p. 52 pl. vi figs. 1–2.

†*Dicirrocrinus* gen. n. p. 87 for type *D. comtus* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 88–91 fig. 19, pl. xi fig. 1, pl. xxxi fig. 2.

Diplocrinus carolinae sp. n. West Indies, CLARK Smith. Misc. Coll. **91** 4 p. 4 pl. i fig. 3, pl. ii fig. 5.

†*Encrinus* sp., VENZO **170** p. 150 pl. xiii figs. 6a–b.

†*Entrochus silesiacus* p. 6, *E.* sp. p. 7, SCHNETZER **141**.

†*Eretmocrinus tentor* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933 pp. 47–49 pl. ii figs. 3–6.

†*Erisocrinus stefaninii* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa **34** pp. 279–281 pl. xx figs. 1–4.

†*Eupachyrinus ardrossensis* pp. 245–247 figs. 4–5, pl. xiii figs. 9–10, pl. xiv figs. 2, 8, 9; *stellaris* p. 247 pl. xiii figs. 12–13, spp. n. Carboniferous Scotland, WRIGHT Geol. Mag. London **71**.

†*Eutaxocrinus dero* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933 pp. 58–59 pl. ii fig. 11, pl. v fig. 1.—*E. prognatus* pp. 112–113 pl. xv fig. 2, *sincerus* p. 113 pl. xx fig. 2, spp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163**; *E.* sp. Id. p. 113.—*E.?* sp., WRIGHT **175** p. 255 fig. 27, pl. xiii fig. 7.

†*Follicrinus* gen. n. for type *Taxocrinus grebei* Follman Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** p. 74; *F. grebei* p. 75 fig. 15, pl. v fig. 2, pl. xxxi; *kayseri* p. 77, Id.

†*Gastrocrinus giganteus* sp. n. Devonian Germany, SCHMIDT Abh.

preuss. geol. LdAnst. **163** pp. 83–86 fig. 18a–b, pl. ix figs. 1–2, pl. x figs. 1–2; *eupelmatus*, Id. p. 87 fig. 18c, pl. xvi fig. 3.

†*Gennaeocrinus mourantae* sp. n. Devonian Canada, GOLDRING Bull. Buffalo Soc. Nat. Sci. **15** pp. 188–191 pl. ii figs. 1–3.

†*Gilbertsocrinus greenei* with var. nov.?, GOLDRING **64** p. 185 pl. i figs. 1–7.

†*Gilmocrinus* gen. n. p. 70 for type *G. iowensis* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933 pp. 71–73 pl. v figs. 7–9, pl. vi figs. 9–10, pl. vii figs. 3–6.

†*Gissocrinus vertebraialis* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 68–71 fig. 13, pl. viii figs. 1–3.

†*Goniocrinus maximus* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933 pp. 61–63 pl. vii fig. 8.

†*Graphiocrinus smythi* sp. n. Carboniferous Ireland, WRIGHT Geol. Mag. London **71** pp. 258–9 fig. 28, pl. xv fig. 8.—*G. fossatotuberculatus* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa **34** pp. 277–278 pl. xix fig. 13.

†*Hapalocrinus frechi* var. *imbellis* var. n. p. 37, var. *nimisfurcata* var. n. p. 37 pl. iii fig. 1, var. *rarefurcata* var. n. p. 36; *H. innoxius* sp. n. pp. 38–39 pl. iii fig. 2, Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163**; *H. elegans* p. 31 fig. 4b–c, pl. xvi fig. 1; *frechi* p. 35 fig. 4a, pl. xxiv, Id.

†*Hexacrinus inhospitalis* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 48–49 fig. 7a, pl. iv fig. 2.

†*Hydiocrinus* sp., WRIGHT **175** p. 244 fig. 3, pl. xiii fig. 11.

†*Imitocrinus* gen. n. for type *Cyathocrinus gracilior* Roemer Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** p. 104; *I. gracilior*, Id. p. 105 fig. 25, pl. xix figs. 1–3, pl. xx fig. 1, pl. xxvi fig. 2.

†*Isocrinus askerensis* var. *inornata* var. n. Cretaceous France, Valette in LAMBERT & VALETTE Bull. Soc. géol. Fr. (5) **4** p. 57 pl. vi figs. 18e–i; *I. askerensis* p. 57 pl. vi figs. 18a–d, Id.—*I. agassizi* p. 102 pl. xv fig. 54, *bronnii* p. 102 pl. xv figs. 52–53, SCHÖNFELDER **142**.

†*Lasiocrinus expressus* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City 15 2 1933 pp. 60-61 pl. vi figs. 7-8.—*L. subramulosus* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 81-83 fig. 17 pl. vii fig. 3.

†*Macarocrinus semelfurcatus* p. 126 fig. 28c, pl. xviii fig. 2; *terfurcatus* p. 126 fig. 28b, pl. xi fig. 3, spp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163; *springeri*, Id. p. 124 fig. 28a pl. xxix fig. 2.

Metacrinus zonatus, CLARK 36 p. 11.

†*Millericrinus exilis* p. 44 pl. ii figs. 23-24, *pepini* p. 44 pl. ii figs. 21-22, *M. sp.* p. 45 pl. ii figs. 25-26, FABIANI & RUZ 53.

†*Monobrachiocrinus siciliensis*, YAKOVLEV 178 p. 275 pl. xix fig. 15.

†*Onychocrinus hibernicus* sp. n. Carboniferous Ireland, WRIGHT Geol. Mag. London 71 pp. 261-265 figs. 29-30, 32, 33, pl. xv figs. 1-4, 6; *polydactylus*, Id. p. 260 fig. 31, pl. xv fig. 5.

†*Pachylocrinus cirrifer* pp. 63-64 pl. vi figs. 3-4, *fimbria* pp. 64-66 pl. v figs. 2-3, spp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City 15 2 1933.—*P. brevidactylus* p. 257 pl. xv fig. 7, *latifrons* p. 256 pl. xv figs. 9, 10, 16, WRIGHT 175.

†*Palermocrinus jaekeli*, YAKOVLEV 178 p. 281 pl. xx figs. 5-14.

†*Paragaricocrinus* gen. n. p. 271 for type *P. mediterraneus* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa 34 pp. 272-274 figs. 1-2, pl. xix figs. 1-6.

†*Parisangulocrinus* gen. n. p. 59 for type *Poteriocrinus zeaeformis* Follmann pp. 60-63 fig. 10, pl. iv fig. 3; *P. furcaxialis* pp. 64-65 fig. 11 pl. vi fig. 3, *minax* pp. 65-66 fig. 12, pl. xii fig. 1, spp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163.

†*Pentacrinus bajocensis* p. 47 pl. ii figs. 33-34, *oristagalli* p. 46 pl. ii figs. 27-32, FABIANI & RUZ 53.

†*Phyllocrinus checcchii* sp. n. Cretaceous Sicily, SERRA Bol. Soc. geol. ital. 52 pp. 353-356 figs. 1-3.

†*Poteriocrinus dubius* sp. n. Permian Tunis, VALETTE Mém. Serv. Carte Géol. Tunisie N.S. 1 pp. 98-99 figs. 13a-c.—*P. ? arkonensis* sp. n. Devonian

Canada, GOLDRING Bull. Buffalo Soc. Nat. Sci. 15 pp. 191-193 pl. ii figs. 6-7.

Promachocrinus kerguelensis, BERNASCONI 15 p. 30 figs. 1-3, pl. i.

†*Propoteriocrinus* gen. n. p. 109 for type *P. scopae* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 110-111 pl. v fig. 3.

Psathyrometra acuta sp. n. West Indies, CLARK Smith. Misc. Coll. 91 4 pp. 1-4 pl. i figs. 1-2, pl. ii fig. 4.

†*Pseudoantedon* gen. n. for type *P. icaunensis* sp. n. Cretaceous France, VALETTE Bull. Soc. Sci. hist. nat. Yonne 36 1933 pp. 217-219 figs. 1-5.

†*Pseudocypressocrinus* gen. n. for type *P. senessei* sp. n. Cretaceous France, Valette in LAMBERT & VALETTE Bull. Soc. géol. Fr. (5) 4 p. 59 pl. vi figs. 16-17.

†*Pterinocrinus diensii* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. 163 pp. 128-130 fig. 29, pl. xxii fig. 1.

†*Pterotocrinus* p. 394 with *P. abruptus* p. 409 pl. xlix figs. 29-31, *arcuatus* p. 402 pl. xlix figs. 1-2, *armatus* p. 407 pl. xlix figs. 34-39, *clorensis* pp. 405-406 pl. xlix figs. 52-53, *convexus* p. 406 pl. xlix figs. 32-33, *cuneatus* pp. 407-408 pl. xlix figs. 11-14, *elongatus* p. 408-409 pl. xlix figs. 15-18, *lingulaformis* pp. 402-403 pl. xlix figs. 25-28, *pentalobus* pp. 413-414 pl. xlix figs. 3-4, *P. ? primus* p. 402 pl. xlix figs. 5-6, *P. scapulatulus* p. 403 pl. l figs. 17-19, *subspatulatus* pp. 412-413 pl. xlix figs. 45-46, *vannus* p. 408 pl. xlix figs. 9-10, spp. n. Carboniferous U.S.A., SUTTON J. Paleont. Sharon Mass. 8; *P. acutus* p. 411 pl. l figs. 10-13, *bifurcatus* p. 412 pl. l figs. 14-16, *capitalis* p. 409 pl. l figs. 20-24, *chesterensis* p. 414 pl. xlix figs. 23-24, *coronarius* p. 410 pl. l figs. 25-31, *crassus* p. 415 pl. l fig. 9, *depressus* p. 403 pl. xlix figs. 7-8, 40-44, *menardensis* p. 405 pl. xlix figs. 47-49, *pyramidalis* p. 415 pl. xlix figs. 19-20, *rugosus* p. 416 pl. xlix figs. 21-22, *serratus* p. 407 pl. xlix figs. 50-51, *spatulatus* p. 410 pl. l figs. 5-8, *wetherbyi* p. 416 pl. l figs. 1-4, Id.

Reometra nom. n. for *Oreometra* Clark 1912 non *Oreometra* Aurivillius 1910 Indian Ocean, CLARK Proc. Biol. Soc. Washington 47 p. 14.

†*Rhadinocrinus dactylus* sp. n. Devonian Germany, SCHMIDT Abh.

preuss. geol. LdAnst. **163** pp. 103-104 fig. 23 d-e, pl. xviii fig. 1a-b; *R. nanus*, Id. p. 100 fig. 23a-b, pl. xvii figs. 1-3, pl. xxxii fig. 2.

†*Rhenocrinus ramosissimus*, SCHMIDT **140** p. 108 pl. xxxii.

†*Rhizocrinus dubius*, SCHÖNFELDER **142** p. 102 pl. xv fig. 51.

†*Rhodocrinus cavanaughi* sp. n. pp. 39-40 pl. i figs. 4-6, *douglassi* var. *constrictus* var. n. p. 45 pl. ii figs. 1-2, var. *excavatus* var. n. p. 46 pl. i fig. 15, var. *multidactylus* var. n. p. 44 pl. i figs. 12-14, var. *serpens* var. n. p. 42 pl. i figs. 7-9, Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933; *R. douglassi* p. 41 pl. i figs. 10-11, *watersianus* p. 36 pl. i fig. 1, *wortheni* p. 38 pl. i figs. 2-3, Id.

†*Scytalocrinus arbiglandensis* p. 250 fig. 19, pl. xiv fig. 6; *covensis* p. 250 fig. 21, pl. xiv fig. 1; *pentonensis* p. 250 fig. 20, pl. xiv fig. 3, spp. n. Carboniferous Scotland, WRIGHT Geol. Mag. London **71**.

†*Senariocrinus* gen. n. for type *S. maucheri* sp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 15-22 fig. 1, pl. i figs. 1-3.

†*Synerocrinus*? *smithi* sp. n. Carboniferous Scotland, WRIGHT Geol. Mag. London **71** pp. 253-255 figs. 25-26, pl. xiii figs. 8, 14.

†*Taxocrinus stürtzii* var. *spinifer* var. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163** pp. 114-117 fig. 26, pl. xv fig. 1, pl. xliii fig. 1.—*T. lobatus*, GOLDRING **64** p. 191.

†*Tetrabrachiocrinus* gen. n. p. 275 for type *T. fabianii* sp. n. Permian Sicily, YAKOVLEV Palaeontogr. ital. Pisa **34** pp. 276-277 pl. xix figs. 7-12.

†*Thalocrinus procerus* sp. n. pp. 43-44 fig. 5c, pl. iii fig. 3, pl. xxv fig. 1; *rugosus* sp. n. pp. 44-45 pl. iv fig. 1, Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163**; *T. hauchecornei*, Id. p. 39 fig. 5a, pl. xxii fig. 2, pl. xxv fig. 2.

†*Triacrinus koenigswaldi* pp. 25-26 fig. 2c, pl. ii figs. 1-2, pl. xxvi fig. 1; *kutscheri* pp. 26-27 fig. 2d, pl. i figs. 4a-b, pl. xi fig. 2, pl. xxxiv fig. 2, spp. n. Devonian Germany, SCHMIDT Abh. preuss. geol. LdAnst. **163**; *elongatus*, Id. p. 22 figs. 2a-b, pl. ii fig. 3, pl. xii fig. 2.

Tropiometra afra, MORTENSEN **116** p. 6 pl. viii.

†*Zeacrinus compactus* sp. n. Carboniferous U.S.A., LAUDON Stud. Nat. Hist. Iowa City **15** 2 1933 pp. 66-67 pl. v figs. 4-5.

MACHAERIDIA.

†*Plumulites chikunensis* sp. n. p. 338 pl. xxxii fig. 2, *primus* sp. n. pp. 526-527 pl. ii figs. 1-3, Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. **3**.

CYSTIDEA AND EDRIOASTEROIDEA.

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†*Dendrocystites* (*Dendrocystoides*?) *globulus* sp. n. Devonian Germany, DEHM SitzBer. bayer. Akad. Wiss. **1934** pp. 20-21 pl. i fig. 1.

†*Dendrocystites* or some allied group, stems of, KOBAYASHI **94** p. 525 pl. i figs. 7-8.

†*Ecocystites*? sp., REED **135** p. 33.

†*Mitrocystites*? *styloideus* sp. n. Devonian Germany, DEHM SitzBer. bayer. Akad. Wiss. **1934** pp. 22-23 figs. 1a-b, pl. i figs. 2-3.

†*Regulaecystis pleurocystoides*, DEHM **47** p. 31 pl. ii figs. 3-6.

†*Rhenocystis latipedunculata*, DEHM **47** p. 24 figs. 2-3, pl. i figs. 4-9, pl. ii figs. 1-2.

†*Sphaeromis shihtienensis*, GORTANI **67** p. 26 pl. i fig. 11.

†*Trochocystites bohemicus*, SAMPELAYO **139** p. 191 pl. vii.

BLASTOIDEA.

†*Orophocrinus* sp., WRIGHT **176** p. 267 pl. xv figs. 11-15.

†*Schizoblastus crassus* sp. n. p. 821 fig. 3, *verbeeki* var. *elongata* var. n. p. 822 fig. 4, Permian Timor, JANSEN Proc. Acad. Sci. Amsterdam **37**; *S. permicus*, Id. p. 823 fig. 5.

INCERTAE SEDIS.

†*Cyclocystoides* discussion of genus, with *C. decussatum* sp. n. Ordovician Scotland, BEGG Geol. Mag. London **71** pp. 220-223 pl. xi figs. 1-5.

†*Orthogonium parallelum*, GURICH **70** p. 146 fig. 5 [? Crinoidea or Porifera].

†Cystid stem or Machaerid plates, KOBAYASHI **94** p. 525 pl. i figs. 3-6.

VI. VERMES

ARRANGED BY

WILLIAM NICOLL, M.A., D.Sc., M.D

CONTENTS

| | PAGE |
|-----------------------------------|------|
| TITLES (for all groups) | 2 |

PLATYHELMINTHES, NEMERTINEA, MESOZOA.

| | |
|-------------------------|----|
| SUBJECT INDEX | 70 |
| SYSTEMATIC | 81 |

NEMATHELMINTHES.

| | |
|-------------------------|-----|
| SUBJECT INDEX | 109 |
| SYSTEMATIC | 120 |

CHAETOGNATHA, GASTROTRICHA, ROTIFERA.

| | |
|-------------------------|-----|
| SUBJECT INDEX | 138 |
| SYSTEMATIC | 139 |

ANNELIDA, GEPHYREA, CONODONTA.

| | |
|-------------------------|-----|
| SUBJECT INDEX | 142 |
| SYSTEMATIC | 146 |

TITLES.

- 1.—**Abbatucci, S.** La prophylaxie de la bilharziose. *Ann. Hyg. Publ. Paris* **10** 1932 pp. 267–272.
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- 11.—**Aiyar, R. G.** On the anatomy of *Marphysa graveyi* Southern. *Rec. Ind. Mus. Calcutta* **35** 1933 pp. 287–323 61 figs.
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- 16.—**Alicata, J. E.** Life history of *Metastrongylus salmi* and remarks on the eggs of the swine lungworms. *Proc. Helminth. Soc. Washington* **1** 1934 pp. 12–13.
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Wells, J. W. *vide* Faust, E. C.

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Yamashita, J. vide Inukai, T.

Yao, Y. T. vide Kan, H. C.

Yen, C. H. vide Hu, S. M. K.

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Young, J. Z. vide Eccles, J. C

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PLATYHELMINTHES, NEMERTINEA, MESOZOA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

Monographs.—Turbellaria Tricladida in Bronns Tierreich, VON GRAFF, 1444; Monograph on Schistosomiasis, GIRGES, 536; Mesozoa, general account, NERESHEIMER, 995.

Text-books.—Internal parasites of domestic animals, CAMERON, 224; Text-book of veterinary helminthology, MÖNNIG, 959; Parasites of domestic animals, BOUGHTON, 167.

Bibliography.—Index catalogue of medical and veterinary zoology, HASSELL & POTTER, 606.

Addresses, Reviews.—Teaching of helminthology, BLACKLOCK, 147; History of schistosomiasis in Porto Rico, FAUST, 432; Parasitological curiosities, HOEPLI, 645, 646; Place of parasitology in animal conservation, LA RUE, 808; Helminthology in comparative medicine, LEIPER, 818.

Nomenclature, Terminology.—*Taenia confusa* Ward 1896 syn. of *T. saginata*, ANDERSON, 42; Identity of *Hymenolepis singularis* in *Sorex araneus*, BAYLIS, 106; Synonymy of *Choanotaenia soricina*, BAYLIS, 109; Notes on nomenclature of Australian Cestodaria, JOHNSTON, 717; *Dollfusina* Eckmann nec Chabanaud altered to *Dollfustrema*, ECKMANN, 412; Correction of generic

name, *Sajonetta*, JONES, 719; Amendment to name of a parasite of man, KHALIL, 754; New name for *Eurypera*, MANTER, 896; Nomenclature of *Microphallus obstipus* and *medius*, MUELLER, 976; *Palmenia* Luther renamed *Palmeniola*, FORSIUS, 468; Emendation of some preoccupied generic names, STRAND, 1304; "Haptor" suggested as new term for adhesive organs of Trematodes, PRICE, 1113.

Taxonomy.—Revision of genus *Polycladodes*, KENK, 747; Notes on some Monocotylidae, JOHNSTON, 716; Revised classification of Hemistomes, DUBOIS, 403; Reclassification of Teloportiidae Fukui, STUNKARD, 1311; Classification of genus *Davainea*, LÓPEZ-NEYRA, 849.

Technique, Diagnostic Methods.—Faecal examination for eggs of parasites, ANON, 52; Microscopic diagnosis of worms in domestic animals, ANON, 53; Coproscopic examination, AVINÉE, 75; Diagnosis of tapeworm parasites of man in United States of America, BROWN, 179; Diagnostic technique for helminths, DORDAL, 399; Helminth coproscopy in the dog, FRICK, 489; Coproscopy for human intestinal parasites in Turkey, HAKKI, 581; Laboratory diagnosis of helminth infections, MAPLESTONE, 899; Enrichment method for detection of Trematode eggs, SZEPESHELYI & URBANYI, 1330; Biological reactions in diagnosis of hydatid infection, BASNUEVO, 103; Investigation of alleged antigenic property of hydatid fluid, BONELLI, 154; Laboratory diagnosis of hydatid, BRESLOT, 174; Outline for experimental study of echinococcus, DÉVÉ, 364; Sedimentation method in schistosomiasis mansoni, HOFFMAN, PONS & JANER, 651; Formic acid as a fixative for Planarians, GUTHRIE, 578; Egg albumin as mounting medium in study of living helminths, KRULL, 787; Method of exhibiting tapeworm as a dry preparation, SCHWARZ, 1217; Intravital staining of transplanted Triclad tissues, STEINMANN, 1284; Collecting technique for platyhelminths, SCHÖMMER, 1209; Cultivation technique for Turbellaria, WAGLER, 1451; Demonstration of axial gradient in *Planaria* by photolysis, HINRICHS, 630; Technique of meat inspection for cysticerci, MÜLLER, 979.

Economics, Control. — Campaign against sheep and cattle liver-flukes, HALL, 589; Control of liver fluke in cattle, JAY, 713, 714; Control of liver fluke in cattle and sheep, Oldenburg, LÜHRS, 856; Control of liver fluke in coastal regions, LÜHRS, 857, 858; Prophylaxis of fascioliasis of sheep and cattle, SKRIABINE & SCHULZ, 1244; Control of liver fluke in sheep, WALTON & JONES, 1460; Prophylaxis of bilharziasis, ABBATUCCI, 1; Control of schistosomiasis in South Africa, CAWSTON, 238, 239, 241; Prophylaxis of schistosomiasis in China, FOSBERY, 469; Anti-schistosomiasis campaign in Chekiang, China, KAN & YAO, 733; Problem of *Diphyllbothrium* infection in North-west Russia, TARASSOW, 1344; Cysticerci in cattle, relation to human infection, CAWSTON, 239; Destruction of cattle cysticerci by freezing, FRANKE, 473, KELLER, 743; Method of determining death of cysticerci, HOCK, 638; Cysticercosis in sheep, KUIPERS, 796; Statistics of cattle systicerci in Denmark, NIELSEN, 999; Relative frequency of *Cysticercus cellulosae* in pigs and of *Taenia solium* in man, OSTERTAG, 1042; Spread and control of *Taenia saginata*, PROFÉ, 1114; Control of echinococcus in Friesland, HOEFNAGEL, 642; Echinococcus in Europe, LÖRINCZ, 851; Statistics of cattle hydatid in Mecklenburg and Friesland, TENHAEFF & FERWERDA, 1357; Control of helminth affections in swine, LENTZ, 822, MELLÓ & MELLO, 930; Common worms of sheep and goats in India, BHALERAO, 142; Prophylaxis of helminth infections in animals, HALL, 583, 588; Importance of parasitic worms in sheep-farming, ORR, FRASER & ROBERTSON, 1040; Effect of overstocking on helminth incidence, MORGAN, 987, MORGAN & OLDHAM, 989; Effect of partial sanitation on incidence of intestinal parasites in man, OTTO & SPINDLER, 1047; Helminth parasites in fishes, seen at food inspections, LAUDIEN, 811; Cestode parasites of animals in relation to human pathology, POPPE, 1099.

Obituary.—Geh. Med.-Rat Prof. Dr. F. Fülleborn, M[ANSON]-B[AHR], 893.

STRUCTURE.

Morphology.—Morphological notes on *Rhynchodemus britannicus*, EASTHAM, 409; Anatomy of *Baicalarctia gulo*,

FRIEDMANN, 491; Morphology of *Aspidogaster limacoides*, BYCHOWSKY & BYCHOWSKY, 209; Morphology of *Petasiger exaeeratus* in the shag, DAVIES, 346; Morphology of papilliose Allocreadiidae, HOPKINS, 661; Morphology of *Prosthogonimus macrorchis*, MACY, 886; Anatomy of *Bacciger bacciger* (Rud.) Nicoll, PALOMBI, 1058; Morphological notes on *Asymphyllodora tincae*, WITENBERG & ECKMANN, 1502; Anatomy and histology of *Cittotaenia pectinata*, REES, 1135; Morphology of *Hymenolepis villosoides*, SZPOTANSKA, 1332; Differential morphology of *Diphyllbothrium minus*, TALYSIN, 1341.

Alimentary system. — Pharyngeal glands of *Rhynchomesostomum rostratum*, KEPNER, MILLER & JONES, 749; Presence of a uroproct in *Stephanostomum casum*, MCFARLANE, 874.

Excretory system.—Lymph system of *Sphyranura oligorchis*, ALVEY & MARTIN, 38; Excretory system of papilliose Allocreadiidae, HOPKINS, 661; Excretory system of *Rhynchomesostomum*, KEPNER, MILLER & JONES, 749; Lymph system of *Telotrema caudatum*, OZAKI, 1050; Excretory system of Cestodes, PINTNER, 1086; Cytology of flame cells in Trematodes, WILEY, 1491.

Nervous system.—Neurochord and sense organs of the Tetrarhynchs, PINTNER, 1087; Cytology of nerve cells of *Leptoplana* and *Prosthiosomum*, STEPOPOE, 1290.

Genitalia.—Reproductive system of *Fonticola velata*, CASTLE & HYMAN, 234; Female genitalia in *Caridinicola indica* and *Monodiscus parvus* [Temnocephala], FERNANDO, 453; Reproductive organs of *Rhynchomesostomum*, KEPNER, MILLER & JONES, 749.

Membranes. — Encystment membranes of peritoneal hydatid cysts, FONTANA, 467; Comparison of Turbellarian ectoderm with Protozoan ectoplasm, GELEI, 519.

Histology.—Histological problems in Turbellaria, BEKLEMISCHEV, 129; Comparison of chromosome equipment in *Planaria chichkovi* and *P. gonoccephala*, CHRANOWA, 279.

Malformations.—Anomalies in number of eyes in *Polycladodes alba*, BEAUCHAMP, 122; Malformation in *Opisthorchis felineus*, ERHARDT & ORGEL, 426; Anomalies in yolk glands of *Fasciola hepatica*, MORAES, 936; Abnormal specimens of *Hymenolepis diminuta* from *Promomys jacksoni*, BAYLIS, 108; Triradiate tapeworms in dog, BOURNE, 168; Polyradiate tapeworms in a dog, DOBROVOLNY & DOBROVOLNY, 384; Anomalies of scolex in *Multiceps serialis*, HENRY, 622; Anomaly in *Taenia saginata*, MACDONAGH, 873; Malformation of *Cotugnia polyacantha*, MARCU, 903; Hypertrophy of hydatid cyst wall, MONSERAT, 933; Structural anomalies in *Hymenolepis diminuta* and *Taenia saginata*, PALAIS, 1054; Asymmetry in *Hymenolepis*, RIETSCHEL, 1152.

PHYSIOLOGY.

Environmental effects.—Influence of heavy water on *Planaria*, BARNES & LARSON, 98; Effect of "heavy water" in controlling fungus infection of a Planarian, LARSON & BARNES, 807; Effects of physiologically equilibrated saline solutions on *Procerodes*, BENAZZI, 133; Histological effect of hypotonic water on *Procerodes wheatlandi*, FOWLER, 471; Histological changes produced in *Procerodes* by freshwater, HANSBOROUGH, 595; Protective effect of calcium for marine *Procerodes* in fresh water, OESTING & ALLEE, 1011; Effect of calcium content of water on *Procerodes ulvae*, RITCHIE, 1158; Protective value of slime secretion in Turbellaria, SCHUEK & ALLEE, 1212; Effect of various coloured light on Planarians, BENTHER, 141; Action of light on Planarians, CALUGAREANU, 218; Effects of x-rays on *Planaria dorotocephala*, MESERVE & KENNAY, 933; Susceptibility of *Euplanaria dorotocephala* to physiological effects of x-rays, STRANDSKOV, 1305; Growth promoting power of adult and embryonic tissues for Planarians, PETTIBONE & WULZEN, 1079; Effects of liver and pancreas on growth of planarians, WULZEN & BAHR, 1515; Resistance of *Fasciola hepatica* to toxic substances, LIÈVRE, 837; Resistance of tapeworms to intestinal digestive juices, FREDERICQ, 476; Action of bile in evagination of cysticerci, WAELE, 1449; Viability of tape-

worms in artificial media, WARDLE, 1465; Employment of *Taenia saginata* in pharmacological tests of anthelmintics, REBELLO, GOMES DA COSTA & RICO, 1133.

Regeneration, Transplantation.—Effect of hydrogen-ion concentration on regeneration in Planarians, CHANOWA, 278; Comparative regenerative powers in *Planaria* and *Procotyla*, CURTIS & SCHULZE, 335; Regeneration and transplantation in planarians, GOETSCH, 543, 544; Correlation in Planarian regeneration, GOLDSMITH, 554; Polarity and heteromorphosis in Planarians, LUS, 860; Transplantation experiments with *Planaria gonocephala*, OKADA & SUGINO, 1023, 1024; Relation of the development stage and age to the regenerative process in *Dendrocoelum lacteum*, SCHAROV, 1189; Transplantation experiments with intra-vital stained Triclad, STEINMANN, 1285; Fission and reconstitution in *Stenostomum*, VAN CLEAVE, 1411; Regeneration in *Planaria maculata* in Ringer's fluid, WILSON, 1494; Wound regeneration in *Planaria*, POPOFF & PETTKOFF, 1097; Effect of x-rays and radium on planarian regeneration, CURTIS & HICKMAN, 333; Effect of x-rays on reconstitution in *Stenostomum tenuicauda*, VAN CLEAVE, 1412; Regeneration in plerocercoid of *Diphyllbothrium erinacei*, IWATA, 706; Regenerative processes in Nemertean, COE, 298, 299.

Disintegration.—Pre-encystment histological degeneration in *Planaria*, ALEXANDER & PRICE, 13; Disintegration of *Planaria maculata*, WILSON, 1493.

Absorption, Digestion.—Osmotic regulation in *Gunda*, BEADLE, 117; Histology of intracellular digestion in *Dendrocoelum lacteum*, SCHLOTKE, 1199.

Chemical constitution.—Carotinoid substances in Turbellaria and Nemertinea, LÖNNBERG, 847.

Neurophysiology.—Function of brain and cephalic nerves in swimming and righting movements in *Planocera*, MOORE, 965.

Sexual physiology.—Physiological resorption of sexual elements in Turbellaria and Trematoda, ČERNOSVITOV,

244; Histochemical investigation of vitelline granules in polyclads, VIALLI, 1433.

REPRODUCTION AND DEVELOPMENT.

Life-cycle.—Life cycle of *Planaria velata*, CASTLE, 233; Life-history of cystocercous cercariae, HORSFALL, 663; Life history of *Schistosoma mansoni*, extra-mammalian phase, FAUST & HOFFMAN, 435; Life-cycle of *Schistosoma haematokium* and *S. mansoni*, GORDON, DAVEY & PEASTON, 564; Life history of *Alaria mustelae*, BOSMA, 164; Life history of *Crassiphiala ambloplitis*, HUNTER & HUNTER, 685, 687; Life history of *Cotylophoron cotylophorum*, KRULL, 785; Life histories of papillose Allocreadiidae, HOPKINS, 661; Life history of *Paragonimus* in North America, AMEEL, 40; Life history of *Nephrostomum ramosum*, sporocysts and rediae in *Planorbis boissyi*, AZIM, 79; Life-cycle of *Proterometra macrostoma*, DICKERMAN, 370; Life cycle of *Clinostomum marginatum*, HUNTER & HUNTER, 686; Life-cycle of *Euryhelminis squamula* completed experimentally in cat, JOYEUX, BAER & CARRÈRE, 723; Life cycle of *Brachylaemus fuscatus*, JOYEUX, BAER & TIMON-DAVID, 726; Life history of *Kasr pleurolophocerca*, KHALIL, 753; Life history of batrachian lung-fluke, *Haematoloechus complexus*, KRULL, 784, 788; Life history of *Panopisthus pricei* in snail, *Zonitoides arboreus*, KRULL, 786; Life-history of new *Rhipidocotyle* from *Eupomotis*, Virginia, KRULL, 792; Life history of *Eustomos chelydrae*, KRULL, 793; Life-cycle of *Prosthogonimus pellucidus* (?) in nymphs of *Tetragoneuria*, LAKELA, 800; Life cycle of turtle trematode, *Cercorchis medius*, McMULLEN, 884; Life-cycle of *Dicrocoelium lanceatum*, MATTES, 916, 917; Life-history of *Plagiorchis* and *Prosthogonimus* spp., Manchuria, ONO, 1038; Life-history of *Bacciger bacciger*, PALOMBI, 1058; Life-history of *Echinoparyphium recurvatum*, RAŠIN, 1130; Life history of *Himasthla quissetensis*, STUNKARD, 1314; Life history of *Typhlocoelum cymbium*, STUNKARD, 1312, 1313; Life cycle of *Halipegus occidialis*, THOMAS & JOHNSON, 1367; Life-history of *Opisthorchis felineus*, VOGEL, 1441; Life history of *Fasciola*

hepatica, WESENBERG-LUND, 1482; Developmental cycle of *Grillotia erinaceus*, RUSZKOWSKI, 1177; Life-history of *Diphyllbothrium erinacei*, JOYEUX, HOUEMER & BAER, 727; Life history of *Mesocestoides* spp., JOYEUX, BAER & MARTIN, 724, WITENBERG, 1501; Life history of anoplocephaline cestodes, STUNKARD, 1310; Life-cycle of *Ophiotaenia* spp., THOMAS, 1365, 1366; Developmental cycle of *Aporina delafondi*, WETZEL, 1485; Life-history of *Raillietina* spp., WETZEL, 1486, 1487.

Development. — Life-history of *Schistosoma mansoni*, intra-mammalian phase, FAUST, JONES & HOFFMAN, 438; Embryonic development of *Schistosoma japonicum*, WATANABE, 1466; Development of *Echinostoma campi* in second int. host, ONO, 1035; Development of *Cercaria indica* *xxiii* into *Euparyphium malayanum*, RAO, 1124; Development of *Fasciolopsis buski*, ISHII, 698-700; Development of *Fasciola hepatica*, STEWART, 1297; Development of *Caryophyllaeus laticeps*, SEKUTOWICZ, 1231; Development of larval *Tetrathyridium variabile*, MARKOWSKI, 934; Postembryonal development of *Taenia solium*, migration of oncosphere within intermediate host, YOSHINO, 1531; Early development of *Cysticercus fasciolaris*, SOLOMON, 1251; Development of *Cysticercus cellulosae* within its intermediate host, YOSHINO, 1532; Developmental phenomena in cestode strobile, PINTNER, 1088; Alternative mode of development in *Lineus gesserensis-ruber*, SCHMIDT, 1203.

Larval forms.—Larva of *Dactylocotyle luscae*, GALLIEN, 509; Duality of development in larvae of *Polystomum integerrimum*, GALLIEN, 510; Morphology of larval stages of *Alaria mustelae*, BOSMA, 164; Morphology of cystocercous cercariae, HORSFALL, 663; Larval Trematodes in terrestrial molluscs, Belgium, ADAM & LELOUP, 5; Cercaria and metacercaria of *C. vitrina* type in *Helix aspersa*, DOLLFUS, CALLOT & DESPORTES, 394; Cercariae from mollusca, Swiss lakes, DUBOIS, 405; Notes on new Molluscan Cercariae, Brazil, LUTZ, 861; New Cercariae from *Helix* spp., N. America, MARTIN, 912; New *Bucephalus* cercaria in pearl oyster, Japan, OZAKI & ISHIBASHI, 1051; New Cercaria in

Heliosoma and *Cyclops*, Michigan, THOMAS 1364; Larval Trematodes in the Gulf of Naples, morphology, biology and systematics, PALOMBI, 1059; Notes on cercaria and redia of *Clino-stomum* sp. (? *marginatum*), KRULL, 790; Trematode metacercariae in sea-urchins, Mediterranean, TIMON-DAVID, 1378; New Hemistome metacercaria in a leech, WISNIEWSKI, 1495; Biology of *Sparganium*, JOYBUX, HOUEMER & BAER, 727; Larval stages of *Triaenophorus nodulosus*, MICHAJLOW, 944; Cysticercoids of *Hymenolepis varinibilis*, JONES, 720; Eggs and larvae of dog, cat and fox parasites, HALL, 582.

Intermediate hosts.—Experimental infection of *Bulinus forskali* with *Schistosoma haematobium*, ADAMS, 6; Int. hosts of *Schistosoma japonicum* in Philippines, BEQUAERT, 135; Planorbid int. hosts of Schistosomes in South and West Africa, CONNOLLY, 308; Transmission of *Schistosoma mansoni* by *Planorbis centimetralis* in Brazil, LUTZ, 862; Negative attempts to induce *Bilharzia* infection in local molluscs, Germany, PRAETORIUS, 1105; Fish int. hosts of Heterophyidae and Echinostomidae, CIUREA, 286; Molluscan int. hosts of *Echinostoma revolutum*, FALLIS, 430; *Cyprinus* and *Carassius* as intermediate hosts of *Asymphylodora tincae* in Japan, NAGANO, 988; Dragonflies serving as int. hosts of *Haematoloechus complexus*, KRULL, 784; Tetrarhynch larva encysted in *Dentex macrophthalmus*, Algeria, DOLLFUS, 391; Cestode larvae encysted in crustaceans, Florida, PEARSE, 1069; Larval Bothriocephalids from fishes of Great Lakes, N. America, VERGEER, 1431; Fish int. hosts of Plerocercoids of *Diphyllbothrium latum*, N. America, VERGEER, 1432; Larval Cestodes in fishes, Japan, YAMAGUTI, 1525; *Cyclops viridis* as int. host of *Schistocephalus solidus*, CALLOT & DESPONTES, 216.

Germinal development.—Formative cells of Planarians, CURTIS & SCHULZE, 334; Reduction-prophase in oogenesis of *Dendrocoelum*, BORDÁS, 161; Germinal development in larval stages of *Cryptocotyle lingua*, CABLE, 215; Spermatogenesis in Gasterostomes, WOODHEAD, 1506.

Ova and ovulation.—Production of malformed eggs by immature *Fasciola*,

TAYLOR, 1347; Digestion of shell of eggs of *Taenia taeniaeformis*, BULLOCK, DUNNING & CURTIS, 198; Discharge of eggs from *Thysanosoma actinoides* segments, HALL, 587; Structure and development of eggs of *Anoplocephala*, *Moniezia* and *Cittotaenia*, OBITZ, 1010; Development of egg of *Cittotaenia pectinix* and experimental infection, REES, 1136; Study of eggs of *Moniezia expansa*, SCOTT & HONES, 1228; Hatching of eggs of *Taenia solium*, YOSHINO, 1530; Structure and mode of evacuation of eggs of *Taenia solium*, YOSHINO, 1534; Electrokinetic phenomena in ova of *Cerebratulus lacteus*, DAN, 339.

Sex and reproductive functions.—Autofecundation in Planarians, GOETSCH, 542; Studies on sex in *Schistosoma japonicum*, SUGIURA, 1322; Reproduction in *Leucochloridium*, WOODHEAD, 1507.

Progenesis.—New progenetic *Coitocaecum* sp. in Tasmanian shrimp, HICKMAN, 627.

Mitosis.—Mitosis in epidermal nuclei of *Stenostomum*, STERN 1292.

ETHOLOGY.

Bionomics.—Biology of Turbellaria in St. Joseph river, DOILEY, 389; Symbiosis of *Zoochlorella* and *Rhabdocoela*, GENEVOIS, 520; Persistence of instinct in *Microstoma*, KEPNER & NUTTYCOMBE, 750; Biological and zoogeographical points arising from occurrence of *Polycladodes cornuta* in the lower Weser region, KLE, 763; Ecology of *Planaria alpina* and *P. goniocephala* in the Transylvanian Alps, LEPSI, 823; Ecology of lake Turbellarians, British Columbia, RAWSON, 1132; Bionomics of North Sea brackish water Turbellaria and Nemertinea, REMANE, 1143; Ecology of Turbellaria in Ontario streams, RICKER, 1150; Bionomics of litoral Turbellaria in the saline regions of the Frischer Haff, Baltic, RIECH, 1151; Biology of Turbellaria in thermal baths, Carinthia, STROUHAL, 1308; Turbellaria in tropical plant ponds, THIENEMANN, 1362; Bionomics of *Geoplana terrestris*, USSING 1409; Intra- and extraxenous migrations of Trematodes, FREUND, 486; Biology of *Prosthogonimus macrorchis*,

MACY, 886; Biology of *Bacciger bacciger* (Rud.), PALOMBI, 1058; Bionomics of Danish freshwater cercariae, WESENBURG-LUND, 1481; Mutual exclusiveness of cestode and echinorhynch parasites of ciscoes (fish), CROSS, 325; Biology of *Sparganum mansoni*, EVANNO, 429; Intra- and intersex tapeworm migrations, FREUND, 488; Longevity of *Moniezia* in sheep, GORDON, 559; Host specificity in Cestodes, MEGGITT, 923; Biology of *Caryophyllaeus laticeps*, SEKUTOWICZ, 1231; Mode of evagination of scolex of *Taenia solium*, YOSHINO, 1533; Influence of domicile locality on the parasitic fauna of the salmon, DOGIEL & PETRUSCHESKY, 388; Significance of hosts for parasites, FREUND, 487; Ecology of helminth parasites of fishes and amphibians N. America, HOLL, 654; Case of aberrant helminth migration in man, ROLLAND, 1166; Biology and ecology of the helminth parasites of fishes, Lake Oneida, N. America, VAN CLEAVE & MUELLER, 1414.

Transmission, Mode of infection.—Prenatal liver fluke infection in a calf, DIZIER, 381; Relation of Chinese freshwater edible crab to *Paragonimus* infection, HOEPLI, 647; Infection with *Clonorchis sinensis* by eating raw fish, HOUEMER, 665; Dog, cat and chicken as experimental hosts of the opossum fluke, *Brachylaeus virginiana* KRULL, 794; Transmission of human Schistosomes in Sierra Leone, GORDON, DAVEY & PEASTON, 564; Congenital infection with *Schistosoma japonicum*, NARABAYASHI, 990; Secondary hydatid infection *per os* in guinea pig, BACIGALUPO, 83; Parasitological considerations in regard to pulmonary hydatids, JOYEUX, 722; Role of cats in spread of *Echinococcus*, LÖRINCZ, 850; Question of transmission of pathogenic cattle cysticerci to man, OSTERTAG, 1043; Relationship of cysticerci in cattle and tapeworms in man, OSTERTAG, 1044; Mechanism of infection of host by cysticerci, WAELE, 1448; Intermuscular coenurus in wild rabbit, BARION, 97; Migration of *Coenurus* larva in definitive host, DE WAELE, 1450; Etiology of ocular sparganosis, JOYEUX, HOUEMER & BAER, 727; *Diphyllbothrium* infestation in North America, RONKA, 1167; Resistance of rats to infection with *Hymenolepis diminuta*, PALAIS, 1055; Dissemination of hel-

minth infections by vegetables, MICHAËLOFF, 937; Helminth eggs in relation to vegetables and fruit, NISHIMURA, 1003.

Immunity, Susceptibility.—Susceptibility of domesticated birds to infection with Heterophyids, CIUREA, 287; Age incidence of Schistosoma infection in Katanga, Central Africa, DIXON, 380; Immunisation experiments with subcutaneous injections of extracts of hydatid membrane, DÉVÉ, 367; Immunisation of rabbits to *Cysticercus pisiformis*, KERR, 752; *Cysticercus* infection inhibited by specific immune serum, MILLER, 946; Relation of A-avitaminosis to parasitic infection in fowls, SEIFRIED, 1230; Cellular bases of immunity reactions in parasitic infections, TALIAFERRO, 1340.

Parasitism, Effects on hosts.—*Dactylogyrus* causing injury to carp, NORDQVIST, 1004, WUNDER, 1518; Allocated Trematodes as cause of pearl formation in Unionid molluscs, N. America, HOPKINS, 659; Effect of Trematode infection on Gastropod metabolism, HURST, 689, HURST & WALKER, 690; *Cercaria bessiae* causing injury to fish, KRULL, 789; Cercariae causing dermatitis (swimmers' itch), McLEOD, 883; Effects of *Cercaria patelluae* on organs of *Patella vulgare*, REES, 1137; Injury to young carp from furcocercariae, WUNDER, 1516; Relation of Gastropods to fish diseases (due to Trematode infections), WUNDER, 1517; Experimental calcification of Schistosomes, BRAND, HOLTZ & VOGEL, 171; Spleno-hepatitis in experimental schistosomiasis, BRUMPT & CHEVALIER, 183; Hepatic changes in schistosomiasis, CAWSTON, 237; Report on examination of thirty thousand human livers for schistosomiasis, Brazil, DAVIS, 347; Blood picture in *Schistosoma mansoni* infection, FAUST & JONES, 437; Cases of schistosomiasis, Tanganyika, FISCHER, 462; Schistosomiasis in Nyasaland, GORSILL, 558; Notes on Japanese schistosomiasis, GRAHAM-YOOLL, 568; Schistosome infection in Mediterranean area, KHALIL, 755; Schistosomiasis investigations in Egypt, KHALIL, 756; Histopathology of *Schistosoma mansoni* infection, LIU, 843; Nasal schistosomiasis in cattle, DORATSWAMY, 398; *Schistosoma* as cause of bovine nasal granuloma, MALKANI, 891; New Schistosome as causal factor in bovine nasal

granuloma, RAO, 1125; Schistosome dysentery in a dog, SWAMINATHAN, 1327; Fatal proventriculitis in fowl due to *Psilostomum cndatrae*, NEWSOM & STOUT, 998; *Sphaeridiotrema globulus* as cause of death in wild ducks, PRICE, 1112; Host-parasite relations of *Echinoparyphium parvulum* in the pigeon, WETZEL, 1484; Histo-pathology of kidney in rabbit infected with *Clonorchis*, UYENO, 1410; Eosinophilia in sheep infected with distomes, ALLEMANDI, 20; Fluke disease in Manitoba dogs, ALLEN & WARDLE, 21; Trematode diseases of the mink, GRINI, 573; *Paragonimus westermani* causing abdominal symptoms, BERCOVITZ & ROGERS, 136; Hepatic histology in *Clonorchis* infection, HOEPLI, 644; Holostomes and *Ligula* associated with fatal enteritis in razorbills, BAYLIS, 116; Ocular sparganosis in Indo-China, HOUEMER, DODERO & CORNET, 666; Researches on sparganosis, JOYEUX, BAER & MARTIN, 725; Experimental anaemia from *Diphyllbothrium* toxin, KINGISEPP, 759; *Dibothriocephalus* poisoning in man, SCHWENNICK, 1218; *Triaenophorus nodulosus* in relation to tumour formation in the perch, VAN THIEL, 1419; *Cysticercus fasciolaris* in relation to neoplasms in rat, AMENDOLA, 41; BEATTI, 120, BRUMPT, 182, CURTIS, DUNNING & BULLOCK, 332, TIBERICA, 1375; Reactions of flea, *Ctenocephalides felis*, to infection with cysticercus of *Dipylidium caninum*, CHEN, 262; Myeloid changes in spleen of animals caused by *Cysticercus cellulosae* and tapeworm emulsions, HOEPLI & FENG, 648; Cardiac cysticercosis in cattle, LIÈVRE, 836; Subcutaneous nodules due to *Cysticercus cellulosae*, CH'IN, 268; *Cysticercus cellulosae* in the lower lip, DEUTSCH, 362; *Cysticercus* as cause of optic neuritis in man, DIXON & SMITHERS, 379; *Cysticercus* infection of the nervous system and meninges, LÓPEZ ALBO, 848; *Cysticerci* as cause of epilepsy in man, MACARTHUR, 865-867; Allergy in hydatid infection of lung, BOTTERI, 166; Secondary bronchogenic echinococcosis of the lung, DÉVÉ, 363; Intense hydatid infection in the ox, HEMMANN, 620; Primary hepatic carcinoma in a negro infected with hydatid, PLAZY & DAMANY, 1092; Extra hepatic multilocular hydatids, pathological study, POSSELT, 1102; Mortality in ducks due to *Hymenolepis coronula*, SCHOFIELD, 1208; *Fimbriaria fascio-*

laris associated with bacterial ulceration in a swan, TAYLOR, 1349; Effect of helminth infections on pancreas in fowls, HERMANN, 623; Relation of Cestodes to malignant tumours in mice, KOBOZIEFF, 766; Fatal tapeworm infection in foal, OXSPRING, 1048; Helminth diseases of pigs, BECKETT, 127; Helminth diseases of moose, FENSTERMACHER & JELLISON, 448; Helminthic diseases of dog, HALL, PRICE & WRIGHT, 591; Helminthic gastro-enteritis in the coypu, SCHÖNENBERGER, 1210; Helminth diseases common to man and mammals, CAMERON, 223; Intestinal helminthiasis in man, Spain, BOTIJA, 165; Helminth infections in an Egyptian village, HEADLEE, 612; Helminths as a cause of meningitis in children, LAURENT, 812; Helminth infections in relation to gynaecology, MAHLER, 887; Haematopoiesis and the origin of eosinophilia in helminthic infections, ALEXEIEFF, 14; Physiopathology of helminth infections, ESPOSITO, 427; Relation of helminths to tumour formation, HOEPLI, 643; Helminths and cancer, LOMBARDI, 846; Helminth infections in wartime, MANDOU, 892; Tapeworms and appendicitis, POPPE, 1098; Experimental relation of helminths to malignant growths, VOS & HENNE-MANN, 1445; Relations of parasitic worms to their hosts, WETZEL, 1483.

Endemiology, Reservoir hosts.—Endemiology of schistosomiasis in Sudan, ARCHIBALD, 57; Endemiology and distribution of *Schistosoma mansoni* in Porto Rico, HOFFMANN & FAUST, 650; Statistics of hydatid infection, South America, FERRO, 454; Wolf and moose as reservoir hosts of *Echinococcus* in Minnesota, RILEY, 1154.

OCCURRENCE, HOSTS.

Invertebrata.—Two new Dicyemids from an octopus, W. Africa, NOUVEL, 1007; Rhabdocoele parasite of *Cardium edule*, ATKINS, 66; Rhabdocoele parasitic on marine invertebrates, Plymouth, CHRENKO, 280; New parasitic Turbellarian in sea cucumber, Bermuda, MESERVE, 932; A presumable blood Trematode of the river crab (*Potamobius*), SCHEER, 1191.

Pisces.—Helminth parasites of fishes, Bay of Neva, GOGIEL & PETRUSCHEWSKY, 387; Parasitic worms of Cyprinoid

fishes, Siberia, ISSAITSCHIKOFF, 701; Helminth parasites of *Chimaera*, RUSZKOWSKI, 1178; New monogenetic Trematodes from American sharks, BROOKS, 178; *Dactylogyrus* spp. on carp in the Biological Institute, Peterhof, BYCHOWSKY, 237; New *Dactylogyrus* on gills of *Gobio gobio*, Russia, BYCHOWSKY, 238; Ectotrematodes of fishes, Puget Sound, N. America, GÜBERLET, 578; Susceptibility of marine fishes to infection with *Epibdella melleni*, NIGRELLI & BREDER, 1001; New Trematodes from Elasmobranch fishes, South Australia, JOHNSTON, 715; Trematode parasites of the bullhead, N. America, ARNOLD, 61; New Trematodes from Silurid fish, *Clarias batrachus*, Burma, CHATTERJI, 258; New opocelous distome from eel, India, HARSHEY, 603; New *Crepidotomum* sp. in eel, Maine, HOPKINS, 680; Fish Trematodes from Russian Arctic, ISSAITSCHIKOV, 702; New *Rhipidocotyle* from *Eupomotis*, Virginia, KRULL, 792; New genus of Trematoda in N. American fishes, LINTON, 842; New sanguinicolous Trematode from *Seriola lalandi*, Florida, McINTOSH, 878; Trematodes of marine fishes, Tortugas, MANTER, 894; Digenetic trematodes from deep-sea fishes, Florida, MANTER, 895; Some marine fish Trematodes, from Banyuls, MATHIAS, 915; Trematode parasites of freshwater fishes, Lake Oncida, N. America, MUELLER, 975, 977; New Allocread genus in Japanese fish, OZAKI, 1049; New Digenetic Trematode from marine fishes, W. Indies, PRICE, 1109; New Accacoeliid Trematode from the sun-fish, ROBINSON, 1161; New *Sterrhurus* sp. from gills of cutlass fish, Atlantic coast, N. America, STUNKARD & NIGRELLI, 1315; New Allocread distome from *Leuciscus idus*, THAPAR & DAYAL, 1361; New *Azygia* sp. from *Ophiocephalus*, China, TSIN, 1397; Trematode parasites from fishes, China, TSIN, 1398; New digenetic Trematode in a toadfish, Alaska, WARD & FILLINGHAM, 1464; New genera of Coitocaeidae from fishes, Poland, WIŚNIEWSKI, 1498; Trematode parasites of fishes, Japan, YAMAGUTI, 1522. Tapeworm parasites of Elasmobranchs, Black Sea, BORCEA, 160; Pseudophyllidean cestode from a flying fish, LINTON, 841; New tapeworms from fishes, China, TSENG, 1396; New tapeworms from fishes, river Amazon, WOODLAND,

1508-1510; Tapeworms in fishes, WURMBACH, 1519; Cestode parasites of fishes, Japan, YAMAGUTI, 1525.

Amphibia.—Trematode parasites of *Rana montezumae*, with key to genus *Haematolechus*, CABALLERO & SOKOLOFF, 213; *Cephalogonimus europaeus* in frog, Armenia, DINNIK, 376; Trematodes from frogs, Ceylon, FERNANDO, 452; Trematodes from *Rana arvalis*, Siberia, ISSAITSCHIKOW, 697; New Trematodes from *Rana cyanophlyctis*, India, SRIVASTAVA, 1261; Helminth parasites of frogs, Schleswig, PAUL, 1065.

Reptilia.—New Amphistome from freshwater turtle, Mexico, CABALLERO & SOKOLOFF, 214; New *Paracercorchis* sp. from tortoise, *Clemmys japonica*, FUKUI & OGATA, 499, 500; New Spirorchid blood flukes in freshwater tortoises, India, MEHRA, 926; New *Telorchis* sp. in freshwater turtle, Japan, OGATA, 1012; New genera and species of blood flukes from marine turtle, North America, PRICE, 1110; *Cephalogonimus* from *Trionyx*, India, SINHA, 1241; New sanguinicolous fluke in Indian tortoise, SINHA, 1242; New Reniferine Trematodes from snakes, N. America, TALBOT, 1339; *Orchidasma amphiorchis* in *Caretta olivacea*, Pacific, YAMAGUTI, 1524; New tapeworm from lizard, Ceylon, BURT, 203; Tapeworms from bull-snake, Burma, MEGGITT, 924; Tapeworm of Nile monitor lizard, VANNI, 1418; New *Ophiotaenia* in Cuban reptile, VIGUERAS, 1438; Cestode parasites of reptiles, Utah, WOODBURY, 1505.

Aves.—List of avian helminths occurring at Hamburg, PETERS, 1077; Intestinal helminths of birds, Provence, TIMON-DAVID, 1377; Helminth parasites of poultry, BUCKLEY, BUNYEA & CRAM, 193; Worm parasites of fowls, Holland, MÖNNIG, 958; Worm parasites of poultry, TAYLOR, 1345, 1346; New monostome Trematode in crane *Megalornis grus*, CANAVAN, 226; *Brachylaemus* spp. in birds, France, DOLLFUS, 393; New avian Strigeids in Zoological Institute collection, Naples, DUBOIS, 404; Trematodes from birds, Ceylon, FERNANDO, 452; Trematodes from ducks, Burma, GOGATE, 550; Heterophyid Trematodes from the Egyptian kite, *Milvus migrans*, GOHAR,

552; New monostome from "killdeer," *Oxyechus vociferus*, California, HANNUM & WILSON, 594; *Brachylaemus* spp. in birds, JOYEUX, BAER & TIMON-DAVID, 726; New Strigeid in a gull, N. America, KRULL, 791; Fowls as hosts of *Prosthogonimus*, LATELA, 810; Morphological notes on *Clino-stomum marginatum* in herons, MACCAGNO 868; New oviduct Trematode of fowls in Northern United States, America, MACY, 885; New avian Trematodes, W. Indies, PRICE, 1108; New genus for *Holostomum serpens* from liver of *Scopus*, SANDGROUND, 1182; New Schistosome in *Poecilonetta*, Brazil, TRAVASSOS, 1384; Trematode parasites of birds, Japan, YAMAGUTI, 1523; Helminth parasites of birds, Dutch East Indies, KRIJGSMAN, 780; Tapeworm parasites of fowls, ADAMS & GEISER, 8; Tapeworms in chicken, BLOCH & BIRCHER, 149; Tapeworms of poultry, Kansas, FERRY, 455, 456; Tapeworms in fowls, KRISTENSEN, 783; New *Taenia* from screech owl, *Otus asio*, N. America, ALVEY & KINTNER, 39; Tapeworm parasites of birds, Queensland, BAYLIS, 111; New *Raillietina* sp. from guinea-fowl, Uganda, BAYLIS, 115; *Liga gallinulae* in *Gallinula chloropus*, DOLLFUS, 392; List of avian cestodes, E. Africa, HUDSON, 682; New Avian Cestodes, India, INAMDAR, 694; Cestodes from birds, India, JOHRI, 718; Bird tapeworms, Marseilles, JOYEUX & TIMON-DAVID, 728, 729; New avian cestodes, India, MOGHE & INAMDAR, 954; New *Hymenolepis* sp. from a hummingbird, Brazil, RIETSCHER, 1152; Avian cestodes, Formosa, SUGIMOTO, 1320; *Rhabdometra odiosa* in the sharp-tailed grouse, SWALES, 1326; New tapeworm from an eagle, China, TSENG, 1395; *Mesocestoides* spp. in birds, Palestine, WITENBERG, 1501.

Mammalia.—Helminth parasites of mammals, Dutch East Indies, KRIJGSMAN, 780; Helminth parasites of mammals, North-East Canada, PARNELL, 1062; Illustrations of some helminth parasites of mammals, VOGEL-SANG, 1443; Distribution and intensity of helminth infection in the hare, BUHR, 196; Helminth parasites of mink, HANSON, 597; Helminth parasites of rats, Toulon, MARCANDIER & PIROT, 900; Helminth parasites of wild rats in Warsaw district, OBITZ, 1009;

Helminth parasites of the moose, N. America, WALLACE, 1458; Japanese weasels as final hosts of *Clonorchis sinensis*, AKAMATSU, 12; *Paragonimus* in rats, China, CHEN, 264; *Brachylaemus* spp. in mammals, France, DOLLFUS, 393; New Agamodistomum in a brown rat, LOEWEN, 845; Two new Trematode parasites of the chipmunk, *Tamias striatus*, N. America, MCINTOSH 877; New *Notocotylus* sp. in meadow mouse, N. America, MCINTOSH & MCINTOSH, 880; New *Acanthatrium* sp. from bat, *Molossus*, Honduras, MARTIN, 911; Trematode infection of warren rabbits, PASCAL, 1063; New Echinostome parasite of beaver, PRICE, 1111; *Dicrocoelium lanceolatum* in the elk, SZIDAT, 1331; Cestodes from mammals, India, JOHRI, 718; Two new *Bertiella* spp. from a rat and a marsupial (*Phalanger*), BAYLIS, 114; New *Moniezia* sp. from wart-hog, Uganda, BAYLIS, 115; *Cysticercus fasciolaris* in red squirrel, N. America, DOBROVOLNY & HARBAUGH, 385; *Cysticercus bovis*(?) in ring-tailed lemur, HAMERTON, 592; Hydatid in a moose, LAW & KENNEDY, 814; *Tetrathyridium elongatum* in rats, Poland, PENKACKI, 1072; Occurrence of broad tapeworm in silver fox, STETTER, 1293; *Coenurus cerebralis* in the chamois, STROH, 1306; Tapeworms of the genus *Mesocestoides* in carnivorous mammals, Palestine, WITENBERG, 1501.

Domesticated mammals.—Helminth parasites of domestic animals, CAMERON, 224; Helminth parasites of domestic animals, Yugoslavia, BABIC, 79; Helminths of farm animals, PILLERS, 1083; Helminths of farm animals, Bogota, REYES, 1149; Helminth parasites of domesticated animals, Queensland, ROBERTS, 1160; Identification list of helminths, VETERINARY DEPT., UGANDA, 49; Common cattle worms, India, BHALERAO, 143; Pulmonary helminths of cattle in Germany, WERNERY, 1479; *Eurytrema pancreaticum* infection in cattle, BURGGRAAF, 199; Distome and Amphistome infections of *Bos bubalis* in Cochin China, GRANOUILLET, 569; New nasal Schistosome in cattle and buffaloes, India, RAO, 1126; Trematode parasites of cattle, Dutch East Indies, SMIT, 1249; Alveolar hydatid in cattle and buffaloes, KRAUSE, 774; Intestinal parasites in ovine veterinary practice, CURTICE,

331; *Dicrocoelium* infection in sheep, Italy, CIANCOTTA, 285; *Cysticercus ovis* in sheep, New South Wales, DRABBLE, 401; *Moniezia expansa* in sheep, California, FREEBORN & BERRY, 477; Ovine cysticercosis in France, MAROTEL & VITU, 906; Internal parasites of horses, CAMERON, 221; Common helminths of horses, THORP & GRAHAM, 1372; Worm parasites of horses, THORP, JAMES & GRAHAM, 1373; *Anoplocephala* spp. in the horse, KINGSCOTE, 758; *Taenais* in the horse, SALIOU, 1181; Common tapeworms of the horse, TEETER, 1355; Parasitic worms of pig, HALL, 584; Helminth parasites of pigs in Madagascar, POISSON, 1095; *Schistosoma japonicum* in pig in India, BHALERAO, 144; New *Schistosoma* of pig in India, RAO & AYYAR, 1127; Pigs as definitive hosts of *Diphyllbothium latum*, TARASSOW, 1343; Helminth parasites of goats, England, OLDHAM & MORGAN, 1033; Helminths of domestic carnivores, CAMERON, 222; Helminth parasites of dogs in China, CHEN, 261; Worm parasites of dog, HALL, 585; New *Alaria* from dog, Ontario, LA RUE & FALLIS, 809; *Echinostoma cinetorchis* in dog, Formosa, SUGIMOTO, 1318, 1319; Tapeworms in pariah dogs, India, ACHARAYA, 2; Tapeworms of the dog, HALL, 586; *Echinococcus* in canines, S. Africa, ORTLEPP, 1041; *Tetrathyridium elongatum* in serous cavities of dog, SSOLONITZIN, 1262; Dog as definitive host of *Diphyllbothium latum*, TARASSON, 1343; *Taenia ovis* in dogs at Washington, WRIGHT & BOZICEVICH, 1512; Helminth parasites of dogs and cats, South-eastern Russia, LANDA, 801; Helminth parasites of dogs and cats in Palestine, WITENBERG, 1500; Canine and feline Dipylidid tapeworms, PILLERS, 1084; Helminth parasites of cats, China, CHEN, 263; *Dithyridium Baillei* in the cat, Madagascar, POISSON, 1096; *Diphyllbothrium mansonii* in cat, Cuba, VIGUERAS, 1439; Parasites of fur-bearing animals, FREUND, 484, HEIDEGGER, 614, HULPHERS, 683;

Homo.—Helminth infestation-rates of prisoners, Mauritius, ADAMS & WEBB, 7; Helminth parasites of school children, N. America, ALICATA, 19; Helminth parasites of school children in Tanganyika, COLOMBO, 305; Intestinal parasites of man in N. Africa, BASILE,

101; Survey of intestinal parasites of man in Schistosomiasis areas of Porto Rigo, FAUST, HOFFMAN, JONES & JANER, 436; Worm parasites of Manchurians, HIYEDA & SUZUKI, 631; Prevalence of parasitic worms in man, Dutch E. Indies, KAISER, 731; Intestinal helminths in French negro soldiers, PIROT & LE MOULT, 1091; Primary hepatic carcinoma in a negro infected with hydatid, PLAZY & DAMANY, 1092; Worm parasites of man, Madagascar, POISSON, 1094; Helminth incidence in man, Kurischer Hafl, Germany, WIGAND & STEINER, 1490; Helminth parasites of man in Syria and Lebanon, YENIKOMSHIAN & BERBERIAN, 1526; Liver-fluke infections in man, Azerbaijan, IAGUBOW, 692; Case of Distomiasis in man, KRAUSE, 775; Case of human *Fasciola* infection in Morocco, MEERSSEMAN, FRIESS & BERGONDI, 922; *Euparyphium ilocanum* in students, Philippine Is., TUBANGUI & FRANCISCO, 1400; Case of *Paragonimus* infection, in Belgian Congo, VAN HOOF, 1417; Cases of *Schistosoma mansonii* infection in Madagascar, LEGENDRE & RAZAFINJATO, 816; *Schistosoma japonicum* in Chinese immigrants, Malaya, PAKIAM, 1053; Tapeworms of school children, U.S.A., CANNING, 227; Tapeworms of man, Belgian Congo, FISHER, 465; Case of multiple taeniasis, LE MOULT & PIROT, 820; Human infection with *Multiceps serialis*, BONNAL, JOYEUX & BOSCH, 155, 156; *Coenurus serialis* in man, BRUMPT, DUVOIR & SAINTON, 184, 185; Pulmonary hydatid cysts in man, Greece, BRAINE, 170; Four new human cases of alveolar hydatid of the liver in France, MARTIN & TISSERAND, 909; Cysticercosis cellulosa in man, DIXON, 378; Two cases of *Cysticercus cellulosa* infection in man, KATO, 735; Cysticercus infection in human twins, MORRISON, 970; *Cysticercus cellulosa* in brain of man, Singapore, TULL & SUBRAHMANYAN, 1401; Sparganum infection in man, MARTIN, 910; *Hymenolepis diminuta* infection in man, N. America, CLARK, 292; Case of *Hymenolepis nana* infection in man, NORONHA, 1005.

Vertebrata.—Trematodes from vertebrates, Philadelphia Zool. Gardens, CANAVAN, 226; List of Trematode parasites of vertebrates of Nile valley,

GOHAR, 553; Helminths of vertebrates, Brazil, PEREIRA, 1076; New Trematodes from Philippine vertebrates, TUBANGUI, 1399.

ETIOLOGY.

Variation, Transitional forms.—Intermediate forms between hydatid and alveolar echinococcus in man, DÉVÉ, 365, 366; Variations in *Plagiotura salamandrae*, KELLEY, 744; Differentiation of *Hymenolepis nana* var. *fraterna* by growth, KIRIBAYASHI, 761.

Relationships. — Relationships of papillose Alloeoreadiidae, HOPKINS, 661; Relationships of blood flukes, MEHRA, 926; Origin of genus *Diplogonoporus* in relation to *Diphyllbothrium*, VERGEER, 1430.

Experimental culture. — Cultural characteristics of *Cysticercus* cysts and tumours in rats, MENDELSON, 931; In vitro cultivation of Planarian tissues, MURRAY, 982.

FAUNAS, DISTRIBUTION.

Europe.—Turbellaria in the littoral of Lake Windermere, MOON, 964; Platyhelminths of Hitchin district, PALMER, 1057; *Convoluta* in Brittany, PIÉRON, 1082; *Fasciola hepatica* in France, MEHL, 925; Distribution of Dutch freshwater Triclad, VOÛTE, 1446; Platyhelminths in the German fauna, REMANE, 1141; Land planarians of Germany with a synopsis of the European Terricola, ARNDT, 60; New cavernicolous Rhabdocoele, Westphalia, GRIEPENBURG, 572; *Planaria gonocephala* in Rügen, THIENEMANN, 1363; Spread of *Opisthorchis* in E. Prussia, ERHARDT, 425; Possibility of *Bilharzia* in Germany, PRAETORIUS, 1104; Distribution of liver fluke in Bavaria, SCHMID, 1202; Distribution of *Taenia saginata* in Wurtemberg, STENGEL, 1288, 1289; Turbellaria and Nemertinea in the benthon microfauna of Kiel Bay, REMANE, 1142; *Geonemertes dendyi* recorded from Germany, STAMMER, 1265; *Planaria alpina* in Donautal, REBHOLZ, 1134; Turbellaria, Hungary, DUDICH, 406; Turbellaria of Hungarian springs and caverns, GEBHARDT, 516, 517; New cavernicolous Triclad, Slovenia, KENK, 746; *Planaria*

alpina and *gonocephala* in Transsylvania, LEPSI, 824; Nemertinea in Hungarian springs, GEBHARDT, 516; New var. of *Planaria alpina* in Corsica, BEAUCHAMP, 121; Distribution of hydatid in Sardinia, CECCHINI, 243; Notes on Triclads of the Piedmontese Alps, BENAZZI, 132; *Dendrocoelum lacteum* in Lake Orta, COLASI, 306; Turbellarian fauna of Lake of Mantova, Italy, GALICO, 508; Helminthic infections in rural Romagna, GIOVANNARDI & MONDOLFO, 527; Notes on *Dalyellia viridis* group, Poland, GIEYSZTOR, 524; New habitats for *Bdellocephala punctata*, in Poland, KRZYSIK, 795; *Cysticercus inermis* in Esthonia, SAAR, 1180; Turbellaria of Finland, NASSONOV, 992; New Rhabdocoels, Russia, BAK-LEMISCHEV, 128; Turbellarian fauna of Petrograd district, NASONOV, 991; Turbellaria from the Balkans and Asia Minor, BEAUCHAMP, 125; Distribution and ecology of Balkan spring Triclads, STANKOVIĆ, 1269; *Fasciola hepatica* in the Faeroe Islands, LÜTZEN & BOVIEN, 863.

Asia.—Presumably marine Turbellaria in Lake Baikal fauna, BERG, 137; Incidence of Clonorchis infection in India, BAGCHI, 86; Planarians from Malaya, Borneo and the China Sea in the Raffles Museum, Singapore, BEAUCHAMP, 123; New brackish water Polyclad, Japan, KATO, 736; Marine Polyclads, Japan, KATO, 737; Key to freshwater Rhabdocoelida of Japan, OKUGAWA, 1032; Freshwater Turbellaria, Japan, UÉNO, 1403; *Planaria gonocephala* in Kyūshū, Japan, UÉNO, 1404; Nemerteans from Kurile Islands, TAKAKURA, 1336.

Africa.—Vesical schistosomiasis in Morocco, BALTAZARD, 93; Schistosomiasis in Tunis, GOBERT, 538; Schistosomiasis in Belgian Congo, FISHER, 464; Bovine cysticercosis in Tunisia, COUSI, 315-317.

North America.—*Dendrocoelum percaecum* in Mammoth cave, N. America, GIOVANNOTTI, 528; Distribution of *Paragonimus* in North America, AMEEL, 40; Increasing prevalence of *Diphyllbothrium latum* in North America, CUSHING & BACAL, 336.

New Zealand.—Incidence of hydatid disease in New Zealand, BARNETT, 99.

Arctic.—New Turbellaria, Greenland, BRANDTNER, 172.

Antarctic.—Biogeographical relations of antarctic Turbellaria, WITTMANN, 1503.

Oceans.—List of Turbellaria collected in the Black Sea, BORCEA, 159; Cestoidea of the North Sea and Baltic regions, SPREHN, 1260; Mesozoa of the North Sea and Baltic, NERESHEIMER, 993; Notes on Polystilifera, North Atlantic, STIASNY-WIJNHOF, 1299; Nemertean from South Atlantic and Southern Oceans, WHEELER, 1489.

SYSTEMATIC.

PLATYHELMINTHES.

TURBELLARIA.

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Acoela.

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Plagiostomum makropharynx p. 135 11 figs, *vorax* p. 135 fig 6, *parasitorum* pp. 135–138, 8 figs, *anocelis* p. 138 2 figs, *petrophilum* p. 139 3 figs, *porsildi* p. 140 3 figs., *chionoecetis* p. 143 2 figs., *arcticum* p. 144 fig. 18, *makroposthia* p. 145 fig. 19, *flavum*

p. 146 fig. 20 spp. n., *caudatum* Levinsen pp. 140–141 2 figs., *girardi* var. *groenlandicum* p. 142 fig. 15, *groenlandicum* (Lev.) p. 143 2 figs., Greenland, BRANDTNER Vid. Medd. Dansk. nat. Foren. København 97 1933–4.

Tricladida.

BIPALIIDAE.

Bipalium haberlandti Graff, Singapore, p. 110, *admarginatum* sp. n. pp. 111–113 fig. 1, *simrothi* Loman, China Sea, pp. 113–116 fig. 2, *everetti* Moseley var. *longitudinalis* var. n. Borneo, p. 116, BEAUCHAMP Bull. Raffles Mus. Singapore 1933 vii.—*B. penzigi* var. *alternans* var. n. THIENEMANN Arch. Hydrobiol. Stuttgart suppl. 13 1934 p. 21.

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Dactylogyrus anchoratus Duj. on *Cyprinus carpio* pp. 271-275 figs. 1-4, *intermedius* Weg. on *Carassius carassius*

pp. 275-279 figs. 5, 6, *vastator* Nyb. on *Cyprinus carpio* pp. 279-285 fig. 7 1 pl., *crassus* Kulw. on *Carassius carassius* pp. 285-287 fig. 8, *formosus* Kulw. pp. 287-289 fig. 9, *wageneri* pp. 290-293 figs. 10, 12, Russia, BYCHOWSKY Trav. Soc. Nat. Leningrad (Sub. Zool.) 62 1933.—*D. cryptomeres* sp. n. on gills of *Gobio gobio*, Lake Boloje pp. 195-200 figs. 1-4, *simpli-cimalleata* f. *minor*. n. pp. 201-203 fig. 5 *amphibothrium* Wagener p. 203, *wunderi* Bych. p. 205 fig. 6 Russia, BYCHOWSKY Zool. Jahrb. Jena (Syst.) 65 1934.

CAPSALIDAE.

[TRISTOMATIDAE.]

Encotyllabe spari sp. n. on gills of *Sparus macrocephalus*, *Plectorhynchus pictus* and *Epinephelus akaara*, Inland Sea, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 265-267 fig. 7.

Epibdella seriolae on body of *Seriola aureovittata* pp. 259-262 figs. 3, 4, *sebastidis* on gills of *Sebastodes inermis* pp. 262-265 figs. 5, 6 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

MONOCOTYLIDAE.

Calicotyle australis sp. n. on a fiddler ray, *Trygonorrhina fasciata*, S. Australia, JOHNSTON Austral. J. Exp. Biol. Med. Sc. Adelaide 12 1934 pp. 25-28 figs. 1-3.

Monocotylodes gen. n. Monocotylineae, type *Monocotyle robusta* Johnston & Tiegs 1922, to include *M. dasybatis* MacCall. and *M. minima* Johnst. & Tiegs, JOHNSTON Proc. Linn. Soc. N.S.W. 59 1934 pp. 62-65 6 figs.

Paramonocotyle gen. n. Merizocotylinae, type *Monocotyle selachii* MacCallum 1916, JOHNSTON Proc. Linn. Soc. N.S.W. 59 1934 p. 65.

OCTOCOTYLIDAE.

Octobothrium leptogaster F.S. Leuck. on *Chimaera monstrosa*, RUSZKOWSKI Ann. Parasit. Paris 12 1934 p. 486 fig. 2.

Octomacrum gen. n. Octocotylidae, *lanceatum* sp. n. on gills of *Catostomus commersonnii* and *Erimyzon sucetta oblongus*, N. America, MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 pp. 360-364 pl. xlvii figs. 1-9.

ONCHOCOTYLIDAE.

Heteronchocotyle gen. n. Onchocotylinae, *hypoprioni* sp. n. on gills of yellow shark, *Hypoprion brevirostris*, Florida Brooks Parasitol. Cambridge 26 1934 pp. 260-264 figs. 1, 5.

Squalonchocotyle ginglymostomae on gills of nurse shark, *Ginglymostoma cirratum*, Florida, p. 264 figs. 2, 6, *microstoma* on gills of hammerhead shark, *Sphyrna zygaena*, Carolina, p. 265 figs. 3, 7, *tiburonis* on gills of bonnet shark, *Sphyrna tiburo*, Florida, p. 266 figs. 4, 8, spp. n. Brooks Parasitol. Cambridge 26 1934.

MICROCOTYLIDAE.

Axine heterocerca Goto on gills of *Seriola quinqueradiata* p. 273, *aberrans* Goto on gills of *Tylosurus schismatorhynchus* pp. 273-274, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Microcotyle caudata Goto on gills of *Sebastes inermis* pp. 267-268, *sebastis* Goto on gills of *Sebastes schlegelii* pp. 268-269, *gotoi* sp. n. on gills of *Hexagrammos atakii* pp. 269-272 figs. 8, 9, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

DIGENEA.

Trematoidea Eichwald 1829 e.p. revived pro Digenea v. Ben., BAER Bull. Biol. Fr. Belg. Paris 65 1931 p. 49.

Aspidogastroidea.

ASPIDOGASTRIDAE.

Aspidogaster limacoides Dies. in *Rutilus rutilus* etc., Caspian, BYCHOWSKY & BYCHOWSKY Z. Parasitenk. Berlin 7 1934 pp. 125-137 4 figs.

Bucephaloidea.

[Gasterostomata.]

BUCEPHALIDAE.

Bucephalopsis gracilescens (Rud.) in stomach of *Lophius piscatorius*, Ban-yuls Bay, MATHIAS Arch. Zool. exp. gén. Paris 75 1934 pp. 578-580 fig. 6.—*B. elongatus* Ozaki in intestine of *Seriola aureovittata* and *Sillago sihama*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 275-276.—*B. pusilla* (Staff.) in intestine of *Stizostedion vitreum*, N. America, v. CLEAVE & MUELLER Roosevelt Wild Life Ann.

Syracuse 3 1934 p. 188 text-fig. 1.—*B. haimeana* (Lac.-Duth.), sporocysts in *Tapes aureus*, Mediterranean, PALOMBI Pubbl. Staz. Zool. Napoli 14 1934 pp. 55-57 figs. 1, 2.

Bucephalus uranoscopi sp. n. in pyloric coeca of *Uranoscopus japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 274-275 figs. 10, 11.—*B. elegans* Woodhead in caeca of *Ambloplites rupestris*, N. America, v. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 189 pl. xxviii figs. 6, 7.—*B. margaritae* sp. n. in gonad, liver, etc. of pearl oyster, *Pinctada martensi*, Japan, OZAKI & ISHIBASHI Proc. Imp. Acad. Tokyo 10 1934 pp. 439-441 3 figs.—*B. polymorphus* Baer in *Anodonta*, Denmark, WESENBERG-LUND K. danske Vidensk. Selsk. Skr. (9) 5 iii 1934 pp. 109-111 pls. xxx, xxxix.

Dolichoenterum sp. in intestine of *Citharichthys cornutus*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 271 fig. 10.—*D. longissimum* Ozaki in intestine of *Muraenesox cinereus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 280 fig. 15.

Dollfusina Eckmann 1932 nec Chabanaud 1932 renamed *Dollfustrema*, ECKMANN Ann. Parasit. Paris 12 1934 p. 256.

Dollfustrema gen. nom. n. pro *Dollfusina* Eckmann 1932, preocc., ECKMANN loc. cit.

Gotonius facilis Ozaki in intestine of *Inimicus japonicus* p. 278, *platycephali* sp. n. in intestine of *Platycephalus indicus* pp. 279-280 fig. 14, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Prosorhynchus uniporus Ozaki, larva in fins of *Callionymus lunatus* p. 276 fig. 12, *aculeatus* Odh. in intestine of *Conger myriaster* pp. 277-278 fig. 13, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*P. ozakii* sp. n. in intestine of *Epinephelus niveatus*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 267 fig. 1.—*P. tsengi* sp. n. in intestine of *Platycephalus indicus*, China, TSIN J. Sci. Nat. Univ. Shantung 1 1933 pp. 385-386.

Rhipidocotyle papillosum (Woodhead) in intestine of *Micropterus* spp., N. America, v. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 190 text-fig. 1.—*R. longleyi*

in intestine of *Hypoclydonia bella* pp. 267-269 figs. 2-5, *kathetostomae* in intestine of *Kathetostoma albigutta* pp. 269-271 figs. 6-9 spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.—*R. septapapillata* sp. n. in *Eupomotis gibbosus*, larval in *Fundulus diaphanus*, Virginia, KRULL Trans. Amer. Micr. Soc. Menasha 53 1934 pp. 408-415 pl. xl.

Skrjabiniella Issaïtschikow 1928 syn. of *Proserhynchus*, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 267.

Sanguinicoloidea.

SANGUINICOLIDAE.

Janickia Rašín 1929 syn. of *Sanguinicola* Plehn, McINTOSH Parasitol. Cambridge 26 1934 p. 465.

APOROCOTYLIDAE.

Aporocotyle orientalis sp. n. in heart of *Cottunculus* sp. Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 534-536 fig. 145.—*A. odhneri* Layman 1930 transferred to *Sanguinicola*, McINTOSH Parasitol. Cambridge 26 1934 p. 465.

Paradeontacylix gen. n. Aporocotylidae, *sanguinicoloides* sp. n. from gills of amberjack, *Seriola lalandi*, Florida, McINTOSH Parasitol. Cambridge 26 1934 pp. 463-467 1 fig.

SPIRORCHIDAE.

Amphiorchis gen. n. Spirorchidae, *amphiorchis* sp. n. in visceral blood vessels of *Chelone mydas*, North America, PRICE J. Wash. Acad. Sc. 24 1934 pp. 133-135 figs. 3, 4.

Gomtiotrema gen. n. Spirorchidae, *sanguina* sp. n. in blood vessels of tortoise, *Hardella thurgi*, India, SINHA Rec. Ind. Mus. Calcutta 36 1934 pp. 147-151 2 figs.

Haematotrema Stunkard syn. of *Spirorchis* MacCallum, MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934 p. 170.

Henotosoma Stunkard 1923 syn. of *Spirorchis*, MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934 p. 170.

Learedius gen. n. Spirorchidae, *learedi*, figs. 5, 6, *similis* figs. 7, 8 spp. n. in circulatory system of *Chelone mydas*, North America, PRICE J. Wash. Acad. Sc. 24 1934 pp. 136-137.

Neospirorchis gen. n. Spirorchidae *schistosomatoides* sp. n. in visceral blood vessels of *Chelone mydas*, N. America, PRICE J. Wash. Acad. Sc. 24 1934 pp. 132-133 figs. 1, 2.

Plasmiorchis gen. n. Spirorchidae, *orientalis* pp. 170-174 figs. 1, 4, 8, 9, *pellucidus* pp. 174-176 figs. 2, 5, 10, *obscurus* pp. 181-182 in heart of *Kachuga dhongoka*, *hardelii* pp. 176-181 figs. 3, 6, 11-13, in heart and aorta of *Hardella thurgi*, India, spp. n., MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934.

Spirorchidae Stunkard, revision and relationships pp. 185-193 with new subf. *Unicaecuminae* p. 188, MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934. —Discussion of family and key to genera, PRICE J. Wash. Acad. Sc. 24 1934 pp. 137-140.

Tremarhynchus Thapar 1933 syn. of *Coeuritrema* Mehra, MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934 p. 170.

Unicaecuminae [sc. *Unicaecinae*] subf. n. Spirorchidae, type *Unicaecum* Stunkard, MEHRA Bull. Acad. Sci. U.P. Allahabad 3 1934 p. 188.

Schistosomatoidea.

SCHISTOSOMATIDAE.

Austroilharzia bayensis sp. n. in mesenteric vein of *Gallinago gallinago*, Philippine Is., TUBANGUI Philipp. J. Sci. Manila 52 1933 pp. 182-183 pl. i fig. 3.

Ornithobilharzia sp. in veins (?) of duck, *Dendrocygna javanica*, Rangoon, GOGATE Rec. Ind. Mus. Calcutta 36 1934 p. 144.

Schistosoma pirajai sp. n. based on ova in faeces and intestine of *Poecilonetta bahamensis*, Brazil, TRAVASSOS Ann. Acad. Brasil. Sci. Rio de Jan. 4 1932 p. 110 fig. 4.—*S. suis* sp. n. in venous portal system of pig, Madras, RAO & AYYAR Indian J. Vet. Sc. Delhi 3 1933 pp. 321-324 1 fig. pl. xxv.—*S. nasalis* sp. n. in nasal turbinate veins of cattle and buffaloes, India, and comparison with *S. spindalis* Montg., RAO Ind. Vet. J. Madras 10 1933 pp. 19-28 4 figs. pls. vii, viii, Ind J. Vet. Sc. Delhi 4 1934 pp. 1-28 5 figs. 5 pls.

Strigeoidea.**[Holostomata.]****STRIGEIDAE.**

Apatemon elassocotylus sp. n. in intestine of *Limosa melanura*, Zool. Inst. Naples, DUBOIS Annu. Mus. Zool. Napoli 6 1934 pp. 9-11 figs. 6-8.

Apharyngostrigea garciai sp. n. in intestine of *Herodias timoriensis* Philippine Is., TUBANGUI Philipp. J. Sci. Manila 52 1933 pp. 184-185 pl. vi fig. 2.

Nematostrigea gen. n. Strigeidae, type *Holostomum serpens* Nitzsch. in liver of bird *Scopus umbretta bannermani*, Mozambique SANDGROUND Parasitol. Cambridge 26 1934 pp. 278-281 pl. xi.

ALARIIDAE.

Alaria canis sp. n. in the dog, Ontario, LA RUE & FALLIS J. Parasit. Urbana 20 1934 p. 335.

Diplostomum orientale sp. nom. n. pro *Proalaria mergi* Yamaguti, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 p. 583.

Neodiplostominae subf. n. Alariidae, type *Neodiplostomum* Railliet, DUBOIS Rev. Suisse Zool. Geneva 40 1933 p. 214.

Neodiplostomum aluconis sp. n. in intestine of owl, *Aluco longimembris*, Philippine Is., TUBANGUI Philipp. J. Sci. Manila 52 1933 pp. 183-184 pl. vi fig. 1.—*N. pricei* sp. n. in small intestine of Australian silver gull, *Larus novaehollandiae*, United States, N. America, KRULL J. Wash. Acad. Sci. 24 1934 pp. 353-356 2 figs.

Proalaria mergi Yamaguti renamed *Diplostomum orientale* sp. nom. n., YAMAGUTI Jap. J. Zool. Tokyo 5 1934 p. 583.

Pseudodiplostomum gen. n. Strigeidae, cochleariforme sp. n. in small intestine of *Ceryle lugubris*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 580-582 fig. 16.

Tetracotyle bicolandiae sp. n. encysted in cervical subcutaneous tissue of *Sterna sinensis*, Philippine Is., TUBANGUI Philipp. J. Sci. Manila 52 1933 pp. 185-187 pl. v fig. 1.

Uvulifer gen. n. Strigeidae, *gracilis* sp. n. in small intestine of *Ceryle*

lugubris, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 577-580 fig. 15.

BOLBOCEPHALIDAE.

Bolbocephalidae fam. n. of Strigeoidea for type *Bolbocephalus*, gen. n., DUBOIS Annu. Mus. Zool. Napoli 6 1934 p. 8.

Bolbocephalus gen. n. Bolbocephalidae *intestiniforax* sp. n. in intestine of *Botaurus stellaris*, Naples Zool. Inst. Coll. and Syria, DUBOIS Annu. Mus. Zool. Univ. Napoli 6 1934 pp. 1-8 figs. 1-5.

CYATHOCOTYLIDAE.

Cyathocotyle melanittae sp. n. in small intestine of *Melanitta fusca*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 575-577 fig. 14.

Prohemistomulum opacum sp. n., metacercaria in cysts in *Herpobdella atomaria*, WIŚNIEWSKI C.R. Acad. Cracovie 1934 vii pp. 5-6.

Prohemistomum fajardensis in intestine of *Sula leucogastra* pp. 4-5 fig. 6, *appendiculatoides* in intestine of *Pelecanus occidentalis* pp. 5-6 fig. 7, spp. n., W. Indies, PRICE Smithsonian. Misc. Coll. 91 vi 1934.

DIPLOPROCTODAEIDAE.

Bianium hemistoma (Ozaki) in small intestine of *Spheroides* spp., Mutu Bay, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 525-526.

Diploporus hemistoma Ozaki 1928 transferred to *Bianium*, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 p. 525.

Didymozooidea.**DIDYMOZOIDAE.**

Didymocystis reniformis Ariola encysted in oesophagus of *Euthynnus pelamys* p. 514, *wedli* Ariola (syns. *Wedlia katsuwonicola* Okada, *D. kobayashii* Dollfus) pp. 514-517 figs. 134, 135 on gills of *Euthynnus pelamys* and *Thynnus thynnus*, *scombri* Tasch. of Odhner transferred to *Nematobothrium* p. 521 footnote, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Didymozoon minor sp. n. encysted in gills of *Euthynnus pelamys*, Pacific Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 523-525 fig. 140.

Nematobothrium filiforme encysted in gills of *Scomber japonicus* pp. 519-521 fig. 138, *pristipomatus* encysted in gills of *Pristipoma trilineatum* pp. 521-522 fig. 139, spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Wedlia orientalis sp. n. in intestine of *Germo macropterus*, oesophagus and stomach of *Euthynnus pelamys* and gills, stomach and rectum of *Thynnus thynnus*, Japan, pp. 517-519 figs. 136, 137, *katsuwonicola* Okada syn. of *Didymocystis wedli* Ariola p. 517, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Hemiuroidea.

HEMIURIDAE.

Aponurus intermedius sp. n. in stomach of *Chaunax nuttingi*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 317-318 fig. 88.—*A. rhinoplagusiae* sp. n. in intestine of *Rhinoplagusia japonica* pp. 488-490 fig. 124, *vitellograndis* Layman in *Cantherinus modestus* p. 491, *brevicaudatus* sp. n. in stomach of *Goniistius zonatus* pp. 491-493 fig. 125 Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Brachyphallus crenatus (Rud.) in stomach of *Oncorhynchus milktschitsch*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 443.

Derogenes varicus (O. F. M.) in stomach of *Scorpaena porcus* and *Serranus cabrilla*, Banyuls Bay, MATHIAS Arch. Zool. exp. gén. Paris 75 1934 pp. 576-578 fig. 5, in oesophagus and stomach of *Dasycottus setiger* and *Cottunculus* sp., Japan, p. 498, *kobayashii* Layman 1930 transferred to *Gonocerca* p. 499, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*D. crassus* sp. n. in intestinal canal of *Callionymus agassizii*, Florida, pp. 318-319, fig. 90, *kobayashii* Layman 1930 transferred to *Gonocerca* Manter p. 319, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Dinosoma gen. n. Hemiuridae, *rubrum* sp. n. in stomach of *Urophycis regius* and a Synodontid, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 313-315 figs. 79-81.

Dinurus coryphaenae in stomach of *Coryphaena hippurus* pp. 450-452 fig. 102, *euthynni* in stomach of *Euthynnus pelamys* pp. 452-454 fig. 103, *scomberi* in stomach of *Scomber japonicus* pp. 454-456 fig. 104 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Ectenurus angusticauda Nicoll 1915 transferred to *Tubulovesicula* gen. n. pp. 464, 474, *hamati* in stomach of *Seriola quinqueradiata*, *S. aureovittata* and *Epinephelus fasciatus* pp. 462-465 figs. 109-111, *paralichthydis* in stomach of *Paralichthys olivaceus* pp. 465-466 fig. 112, *platycephali* in stomach of *Platycephalus indicus* pp. 466-468 fig. 113, spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Genarchella Travassos, Artigas and Pereira 1928 syn. of *Genarchopsis* Ozaki, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 501.

Genarchopsis goppo Ozaki in stomach of *Mogurnda obscura*, Japan YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 500-501 fig. 128.

Gonocerca kobayashii (Layman) in oesophagus and stomach of *Dasycottus setiger* and *Cottunculus* sp., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 499-500.—*G. phycidis* Manter in *Coelorhynchus*, *Merluccius* and *Urophycis*, pp. 320-321 fig. 91, *crassa* in numerous marine fishes pp. 321-322 fig. 92 spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Hemiurus sp. in stomach of *Peristedion imberbe*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 304 fig. 67.—*H. odhneri* sp. n. in stomach of *Theragra chalcogramma*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 432-434 fig. 91.

Hypohepaticola gen. n. Hemiuridae, *callionymi* sp. n. under connective tissue membrane of liver of *Callionymus valenciennesi*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 447-450 figs. 99-101.

Hysterolecitha microrchis sp. n. in oesophagus of *Girella punctata*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 493-495 fig. 126.

Hysterolecithoides gen. n. Hemiuridae, *epinepheli* sp. n. in oesophagus and stomach of *Epinephelus akaara* and

Siganus fuscescens, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 495-498 fig. 127.

Jajonetta gen. n. [erratum pro *Ceratotrema*], JONES Parasitology Cambridge 25 1933 pp. 252, 410.

Lecithaster lindbergi Layman 1930 referred to *Tubulovesicula* gen. n. p. 470, *stellatus* Lss. in intestine of *Halichoeres poecilopterus* pp. 484-486 fig. 122, *salmonis* sp. n. in intestine of *Salmo keta* pp. 486-488, fig. 123 Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Lecithochirium sp. in stomach of *Urophycis regius*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 313 figs. 86, 87.

Lecithocladium barbatum Cohn transferred to *Dinurus* p. 483, *excisum* (Rud.) in stomach of *Scomber japonicus* pp. 475-476, *excisiforme* Cohn in stomach of *Stromateoides argenteus* p. 476 fig. 118, *psenopsis* in stomach of *Psenopsis anomala* pp. 477-479 fig. 119, *magnacetabulum* in *Psenopsis anomala* pp. 479-482 fig. 120, *pagrosomi* in stomach of *Pagrosomus major* pp. 482-484 fig. 121 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Magnacetabulum gen. n. Hemiuridae, *trachuri* sp. n. in stomach of *Trachurus japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 459-462 fig. 108.

Parahemiurus sardiniae in stomach of *Sardinia melanosticta*, *Engraulis japonicus*, and *Istiophorus orientalis* pp. 432-436 figs. 92, 93, *seriolae* in stomach of *Seriola quinqueradiata* pp. 437-439 fig. 94 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Parasterrhurus gen. n. Hemiuridae, *anurus* sp. n. in stomach of *Argentina striata*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 315-316 figs. 93-95.

Prosorchinae subf. n. Hemiuridae, for *Prosorchis* gen. n., YAMAGUTI Japan. J. Zool. Tokyo 1934 p. 507.

Prosorchis gen. n. Hemiuridae, *psenopsis* sp. n. in oesophagus of *Psenopsis anomala*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 505-508 figs. 131, 132.

Sterrurus fusiformis (Lühe) in intestine of *Conger vulgaris*, Banyuls Bay, MATHIAS Arch. Zool. exp. gén. Paris 75

1934 pp. 574-576 fig. 4.—*S. musculus* Lss. in stomach of *Anguilla japonica* and *Conger myriaster* p. 444 fig. 97, *inimici* sp. n. in stomach of *Inimicus japonicus* pp. 444-447 fig. 98, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*S. floridensis* sp. n. in numerous marine fishes pp. 305-307 figs. 68-71, *laevis* (Linton) in *Helicolenus* and *Peristedion* spp. pp. 307-308 figs. 72, 73, *praeclarus* in stomach of *Merluccius* sp. p. 309, fig. 74, *robustus* in several marine fishes pp. 310-311 figs. 75-78, *profundus* in *Aleposomus* and *Pronotogrammus* spp. pp. 311-312 figs. 83-85 spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.—*S. branchialis* sp. n. on gills of cutlass fish, *Trichiurus lepturus*, N. Atlantic, STUNKARD & NIGRELLI Biol. Bull. Woods Hole 67 1934 pp. 534-540 2 figs.

Stomachicola gen. n. Hemiuridae, *muraenesocis* sp. n. in stomach of *Muraenesox cinereus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 456-459 figs. 105-107.

Tubulovesicula gen. n. Hemiuridae, *spari* in stomach of *Sparus macrocephalus* pp. 468-470 figs. 114, 115, *anguillae* in stomach of *Anguilla japonica* pp. 470-472 fig. 116, *muraenesocis* in *Muraenesox cinereus* pp. 472-474 fig. 117 spp. n., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Vitelotrema Guberlet 1928 syn. of *Genarchopsis* Ozaki, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 501.

ACCACOEILIIDAE.

Accacladium serpentulus Odh. in intestine of *Mola mola*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 p. 508.

Accacocaelium alveolatum sp. n. in intestine of sun-fish, *Orthogoriscus mola*, English Channel, ROBINSON Parasitology Cambridge 26 1934.

Odhnerium gen. n. Accacoeiliidae, type *Distomum calyptrocotyle* Monticelli 1893 in intestine of *Mola mola*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 509-511.

Rhynchopharynx paradoxa Odh. in intestine of *Mola mola*, Pacific, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 508-509.

Tetrochetus coryphaenae sp. n. in small intestine of *Coryphaena hippurus*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 511-514 fig. 133.

SYNCOELIIDAE.

Genolinea aburame sp. n. in stomach of *Hexagrammos otakii*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 440-442 fig. 96.

Hemiperina gen. n. Hemiuridae, *nicolli* sp. n. in stomach of *Chaunax nuttingi*, *Diplacanthopoma brachysoma* and *Dibranchius atlanticus*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 323-324 figs. 96-98.

SCLERODISTOMATIDAE.

(ISOPARORCHIDAE.)

Isoparorchis trisimilitubis Southwell in *Parasilurus asotus*, Japan, with notes on life history, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 501-505.

HAPLOSPLANCHNIDAE.

Haplospalchnus pachysomus (Eysenhardt) in intestine of *Mugil cephalus*, Inland Sea, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 361

AZYGIIDAE.

Azygia anguillae Ozaki in stomach of *Anguilla japonica*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 360.—*A. hwangtsiyui* sp. n. in *Ophiocephalus argus*, China, TSIN J. Sci. Nat. Univ. Shantung 1 1933 pp. 104-116 11 figs.

Otodistomum sp. in stomach, intestine and, possibly, coelium of *Coelorrhynchus carminatus*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 324 fig. 99.

Proterometra macrostoma Horsfall in oesophagus of *Pomoxis sparoides*, *Heliopecten incisor* and *Eupomotis gibbosus*, Illinois, DICKERMAN Trans. Amer. Micr. Soc. Menasha 53 1934 pp. 8-21 pl. ii, in *Goniobasis huacensis*, N. America, MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 359.

Allocreadioidea.

ALLOCREADIOIDAE.

Allocreadium hasu Ozaki in intestine of *Opsarichthys uncirostris* pp. 281-282, *japonicum* Ozaki in *Zacco platypus* p. 282, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*A. halli* Mueller and Van Cleave 1932 syn. of *A. ictaluri* Pearse 1924, VAN CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 199.—*A. lobatum* Wallin in

Semotilus atromaculatus and *Leucosomus corporalis*, Oneida Lake, N. America, MUELLER t.c. p. 358 pl. xlv fig. 1.

Bunodera Railliet 1896 allocated to Allocreadiidae, V. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 209.—*B. luciopecterae* (O. F. M.) p. 52, *sacculata* V. Cl. & Mueller p. 55 figs., morphology and relationships, HOPKINS Illinois Biol. Monogr. 13 ii 1934.

Caudotestis Issaitschikow 1928 raised to generic rank, type *Lebouria nicolli*, p. 294, *orientalis* in intestine of *Sarcocheilichthys variegatus* pp. 288-290 fig. 19, *gnathopogonis* in *Gnathopogon elongatus* pp. 290-292 fig. 20, *zacconis* in *Zacco temminckii* pp. 292-294 fig. 21, spp. n., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Choanostoma gen. n. Allocreadiidae, *plectorhynchii* sp. n. in intestine of *Plectorhynchus pictus*, Inland Sea, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 314-317 fig. 31.

Crepidostomum cornutum Osborn in intestine of *Ambloplites*, *Micropterus* etc. pp. 200-202 text-fig. 2, *cooperi* Hopkins in *Perca flavescens* etc. pp. 203-204, *isostomum* Hopkins in *Percina* and *Percopsis* p. 204 pl. xxx fig. 2, 3, *ictaluri* (Surber) in *Noturus flavus* etc. pp. 205-208 pl. xxx figs. 4-11, N. America, V. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934.—*C. brevivittellatum* sp. n. in intestine of *Anguilla rostrata* and *Lota maculosa*, Maine, HOPKINS J. Parasit. Urbana 20 1934 pp. 295-298 pl. i.—*C. farionis* O. F. M. p. 10, *metoecus* (Brn.) p. 14, *cooperi* Hopkins p. 18, *cornutum* (Osborn) p. 29, *illinoiense* Faust p. 32, *isostomum* Hopkins p. 35, *auriculatum* (Wedl) p. 37, *lintoni* (Pratt) p. 39, *canadense* Hopkins p. 43, *latum* (Pigulewsky) p. 43 figs., HOPKINS Illinois Biol. Monogr. 13 ii 1934.

Creptotrema funduli sp. n. in intestine of *Fundulus diaphanus menona*, Oneida Lake, N. America, MUELLER Trans. Amer. Micr. Soc. Menasha 53 1934 pp. 233-236 pl. xxiii figs. 2-4, Roosevelt Wild Life Ann. Syracuse 3 1934 p. 359 pl. xlv fig. 8.

Cymbrellus gen. n. Allocreadiinae, type *Distomum vitellousum* Linton p. 81, *fimbriatus* sp. n. in intestine of *Menticirrhus saxatilis*, *M. americanus*, *Bairdiella chrysura* and *Sciurus ocellatus*,

N. America p. 82, LINTON, J. Wash Acad. Sc. 24 1934.—*C. vulgaris* sp. n. in intestine, rarely stomach, of numerous deep water fishes pp. 293–294 figs. 42–47, *fimbriatus* Linton in intestine of *Coelorrhynchus carminatus* or *Chalinura occidentalis*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Decemtestis gen. n. Alloeoreadiidae, *sillagonis* in *Sillago sihama* pp. 317–319 fig. 32, *callionymi* in *Callionymus valenciennesi* and *C. lunatus* pp. 319–320 fig. 33, *ditremitis* in *Ditrema temmincki* p. 321 fig. 34 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Diplobulbus gen. n. Alloeoreadiidae, *calotomi* sp. n. in intestine of *Calotomus japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 311–314, fig. 30.

Eurycreadium gen. n. Alloeoreadiidae, *vitellousum* sp. n. in intestine of *Laemonema barbatulum*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 290–292 fig. 64.

Hamacreadium epinepheli in intestine of *Epinephelus akaara* and *Lethrinus haematopterus* pp. 305–308 fig. 27, *lethrini* in stomach and intestine of *Lethrinus haematopterus* pp. 308–311 figs. 28, 29, spp. n., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Helicometra plovornini sp. n. in intestine of *Lycodes agnostus*, *Triglops pingelli* and *Aspidophoroides olriki*, Barents and White Seas, ISSAITSCHIKOV Trans. Oceanogr. Inst. Moscow 3 1933 p. 39 pl. ii figs. 8, 9.—*H. fasciata* (Rud.) in intestine of *Trigla aspera* and *Scorpaena porcus*, Banyuls Bay, MATHIAS Arch. Zool. exp. gén. Paris 75 1934 pp. 569–571 fig. 2.—*H. epinepheli* in intestine of *Epinephelus akaara* and *E. tsirimenara* pp. 298–301 fig. 24, *hypodytis* in intestine of *Hypodytis rubripinnis* pp. 301–302 fig. 25, spp. n., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Helicometroides gen. n. Alloeoreadiidae, *longicollis* sp. n. in intestine of *Plectorhynchus pictus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 302–305 fig. 26.

Lebouria Nicoll syn of *Plagioporus* Stafford 1904, PRICE Smithsonian. Misc. Coll. Washington 91 vii 1934 p. 6.—*L. lobata* in intestine of *Chelidonichthys kumu* pp. 283–284 fig. 16, *choerodon* [*t*] is

in *Choerodon azurio* pp. 284–286 fig. 17, *calotomi* in *Calotomus japonicus* pp. 286–288 fig. 18, spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*L.* sp. [near *L. alacris*] in intestine of *Chimaera monstrosa*, RUSZKOWSKI Ann. Parasit. Paris 12 1934 p. 489.—*L. (Caudolestis) nicolli* subg. n., sp. n. in stomach of *Icelus bicornis*, Kara Sea, ISSAITSCHIKOV Trans. Oceanogr. Inst. Moscow 3 1933 p. 37 pl. i fig. 4.

Macrolecithus gotoi Hasegawa and Ozaki 1926 in intestine of *Misgurnus unguiculacaudatus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 333–334 fig. 38.

Maculifer japonicus Layman in intestine of *Sphaeroides spadiceus*, Pacific, and *Sphaeroides* sp., Inland Sea, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 311.

Megalogonia Surber 1928 syn. of *Crepidostomum*, v. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 205.—*M. ictaluri* Surber, morphology and relationships, HOPKINS Illinois Biol. Monogr. 13 ii 1934 p. 45.

Pedunculacetalubum gen. n. Alloeoreadiidae, *opisthorchis* sp. n. in intestine of *Lethrinus haematopterus*, *Goniistius zonatus* and *Hexagramma otakii* Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 336–338 fig. 40.

Petalocotyle gen. n. Alloeoreadiidae, *nipponica* sp. n. in intestine of fish, *Xesurus scalprum*, Japan, OZAKI Proc. Imp. Acad. Tokyo 10 1934 pp. 111–114 2 figs.

Phyllotrema gen. n. Alloeoreadiidae, *bicaudatum* sp. n. in intestine of *Ophichthys asakusae*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 338–340 fig. 41.

Plagiocirrus primus v. Cleave & Mueller, note on structure, MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 355 pl. xlv figs. 2–6.

Plagioporus fusiformis sp. n. in intestine of eel, *Xenomystax* sp., Porto Rico, PRICE Smithsonian. Misc. Coll. 91 vii 1934 pp. 5–6 pl. i fig. 4.—*P. sinitsini* sp. n. in gall bladder of *Catostomus commersoni*, Lake Oneida, MUELLER Trans. Amer. Micr. Soc. Menasha 53 1934 pp. 231–232 pl. xxiii fig. 1, Roosevelt Wild Life Ann. Syracuse 3 1934 p. 359 pl. xlv fig. 7.

Plesiocreadium Winfield 1929 syn. of *Macroderoides* Pearse 1924, v. CLEAVE & MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934 p. 212.

Podocotyle levinsoni in intestine of *Cyclopterus lumpus* and *Liparis liparis*, White Sea, p. 38 pl. i figs. 5, 6, *odhneri* in intestine of *Gymnacanthus tricuspis*, Barents Sea, p. 38 pl. i fig. 7, spp. n. ISSAITSCHIKOV Trans. Oceanogr. Inst. Moscow 3 1933.—*P. lanceolata* sp. n. in intestine of fish, *Polymixia* sp., Porto Rico, PRICE Smithsonian. Misc. Coll. 91 vii 1934 pp. 6-7 pl. i fig. 5.—*P. ayu* Takahashi in intestine of *Plecoglossus altivelis*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 294-295 fig. 22.—*P. pearsei* sp. n. in intestine of *Urophycis chester*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 289-290 fig. 61.—*P. atomon* (Rud.), immature forms in *Atherina hepsetus* and *A. boyeri*, Gulf of Naples, PALOMBI Publ. Staz. Zool. Napoli 14 1934 pp. 90-91 fig. 34.

Podocotylodes gen. n. Allocreadiidae, *petalophallus* sp. n. in intestine of *Plectorhynchus pictus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 295-298 fig. 23.

Polylekithum gen. n. Allocreadiinae, type *Allocreadium halli* Mueller & Van Cleave, to include *A. ictaluri* Pearse, ARNOLD Trans. Amer. Micr. Soc. Menasha 53 1934 pp. 268-269 pl. xxvii figs. 1, 2.

Triganodistomum attenuatum Mueller & V. Cleave pp. 351-354 pl. xlv figs. 1-6, *simeri* Mueller & V. Cleave p. 354 fig. 7, with revised definition of genus, p. 355, MUELLER Roosevelt Wild Life Ann. Syracuse 3 1934.

OPECOELIDAE.

Anisoporus cobraeformis Ozaki in intestine of *Daiacoccus peterseni*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 355-356 fig. 53.

Opecoelina [gen. n.], Opecoelinae, *scorpaenae* in intestine and caeca of *Scorpaena cristulata* pp. 301-302 figs. 55-58, *helicoleni* in intestine of *Helicolenus dactylopterus* pp. 303-304 figs. 59, 60 spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Opecoelus sphaericus Ozaki in intestine of *Conger myriaster*, *Hexagrammus otakii* and *Girella punctata* p. 344,

lobatus Ozaki in *Parapristipoma trilineatum* and *Epinephelus akaara* p. 345, *elongatus* Ozaki in *Upeneoides bensasi* p. 345 minor in *Sebastes guntheri* and *Sebastichthys mitsukurii* pp. 346-348 figs. 44, 45, *sebastodis* in *Sebastes guntheri* pp. 348-349 figs. 46, 47, *nimici* in *Inimicus japonicus* pp. 349-351 fig. 48 spp. n. Japan, *minimus* Tubangui 1928 assigned to *Opegaster* p. 351, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Opegaster anguillii sp. n. in intestine of *Anguilla bengalensis*, India, HARSHEY Bull. Acad. Sc. Allahabad 4 1933 pp. 113-118 1 pl.—*O. ovatus* Ozaki in intestine of *Paraperca pulchella* p. 352 figs. 49, 50, *syngnathi* in *Syngnathus schlegeli* pp. 352-353 fig. 51, *parapristipomatis* in *Parapristipoma trilineatum* pp. 353-355 fig. 52 spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

COITOCAECIDAE.

Coitocaecum latum Ozaki in intestine of *Ditrema temmincki* p. 356, *glandulosum* sp. n. in *Epinephelus akaara* and *Sparus macrocephalus* pp. 357-359 figs. 54, 55, *plagiorchis* Ozaki in *Mogurnda obscura* and *Bryttosus kuwamebari*, pp. 359-360 fig. 56 Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*C. anaspidis* sp. n. encysted in freshwater shrimp, *Anaspides tasmaniae* Thomson, Tasmania, HICKMAN Parasitol. Cambridge 26 1934 pp. 121-128 6 figs.—*C. proavatum* sp. n. in fish, Poland WISZNIEWSKI Mém. Acad. Polon. Cracow Class. Sc. Math. Nat. B. 1934 pp. 27-42.

Nicolla gen. n. Coitocaecidae, type *Coitocaecum ovatum*, WISZNIEWSKI Mém. Acad. Polon. Cracow Class. Sc. Math. Nat. B. 1934 pp. 27-42.

Ozakia gen. n. Coitocaecidae, type *Coitocaecum plagiorchis*, WISZNIEWSKI Mém. Acad. Polon. Cracow Class. Sc. Math. Nat. B. 1934 pp. 27-42.

SPHAEROSTOMATIDAE.

Cotylogonoporum gen. n. Sphaerostomatidae, *orfeum* sp. n. in intestine of golden orfe, *Leuciscus idus*, THAPAR and DAYAL J. Helminth. St. Albans 12 1934 pp. 127-136 4 figs.

Sphaerostomatidae fam. n. to include *Sphaerostomum* and *Cotylogonoporum*, THAPAR and DAYAL J. Helminth. St. Albans 12 1934 p. 135.

MEGAPERIDAE.

Megapera gen. nom. n. pro *Eurypera* Manter 1933, preocc., MANTER Trans. Amer. Micr. Soc. Menasha 53 1934 p. 293.

Megaperidae fam. nom. n. pro Euryperidae Manter 1933, MANTER Trans. Amer. Micr. Soc. Menasha 53 1934 p. 293.

LEPOCREADIIDAE.

Aephniogenes barbarus Nicoll 1915 in *Parapristipoma trilineatum* pp. 341-342, *major* sp. n. in intestine of *Plectrohynchus pictus* pp. 342-344 fig. 42, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Aephniogenetinae subf. n. Allocreadiidae, type *Aephniogenes* Nicoll, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 344.

Lepidapedon rachion (Cobbold) in intestine of *Caelorhynchus carminatus* p. 296 fig. 49, *elongatum* (Lebour) in *Caelorhynchus*, *Laemonema*, *Urophycis* and *Epigonus* p. 296 fig. 50, *nicolli* in *Epinephelus niveatus* pp. 297-298 figs. 51-53, *lebouri* in Macrouridae p. 299 fig. 54 spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Lepodora rachiaea subsp. *gymnacanthi* subsp. n. in intestine of *Gymnacanthus tricuspidis*, Barents and Kara seas, ISAITSCHIKOV Trans. Oceanogr. Inst. Moscow 3 1933 p. 40.—*L. gadi* sp. n. in intestine of *Gadus macrocephalus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 325-327 fig. 35.

Lepotrema clavatum Ozaki in *Monacanthus cirrhifer*, *Cantherines unicornis* and *Pseudorhombus cinnamomeus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 324.

Myzoxenus gen. n. Lepocreadiinae, *vitellus* sp. n. in intestine of *Calamus calamus* and *Decodon puellaris*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 299-301 figs. 62, 63.

Opechona alaskensis sp. n. in intestine of a "toadfish," Icy Straits, Alaska, pp. 25-28 figs. 8, 9, *bacillaris* (Molin) p. 28, *orientalis* (Layman) p. 29, *gracilis* (Manter) p. 30, WARD & FILLINGHAM Proc. Helminth. Soc. Washington 1 1934.

Orientocreadium pseudobagri sp. n. in intestine of *Pseudobagrus aurantiacus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 334-336 fig. 39.

Pharyngora Lebour 1908 syn. of *Opechona* LOOSS 1907, WARD & FILLINGHAM Proc. Helminth. Soc. Washington 1 1934 p. 29.—*P. orientalis* Layman in intestine of *Scomber japonicus*, *Sphaeroides rubripes* and *Engraulis japonicus* pp. 327-328, *olssoni* in *Scomber japonicus* pp. 328-331 fig. 36, *sebastodes* in *Sebastodes güntheri* pp. 331-333 fig. 37, spp. n. Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Pseudocreadium monacanthi Layman in intestine of *Monacanthus cirrhifer* and *Cantherines unicornis*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 323-324.

ACANTHOSTOMATIDAE.

Anisocoelium capitellatum (Rud.) in gall bladder of *Uranoscopus scaber*, Banyuls Bay, MATHIAS Arch. Zool. exp. gén. Paris 75 1934 pp. 572-574 fig. 3.

Biovarium gen. n. Acanthostomatidae, *cryptocotyle* sp. n. in intestine of *Lateolabrax japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 361-363 fig. 57.

Isocoelium medioleicithale Ozaki in intestine of *Uranoscopus japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 367.

Masenia gen. n. Acanthostomatidae (Maseniinae), *collata* sp. n. in intestine and stomach of *Clarias batrachus*, Burma, CHATTERJI Bull. Acad. Sci. Allahabad 3 1933 pp. 36-38 figs. 4, 5.

Maseniinae subf. n. Acanthostomatidae, type *Masenia* gen. n., CHATTERJI Bull. Acad. Sci. Allahabad 3 1933 pp. 36-37.

Paracryptogonimus gen. n. Acanthostomatidae, *acanthostomus* sp. n. in intestine of *Therapon oxyrhynchus* and *Lutianus vitta*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 363-367 fig. 58.

Paraisocoelium exorchis Ozaki in intestine of *Uranoscopus japonicus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 368.

ACANTHOCOLPIDAE.

Echinostephanus gen. n. Acanthocolpidae, *hispidus*, sp. n. in intestine of *Seriola quinqueradiata*, larvae in flesh of *Argentina kagoshimae*, Pacific coast, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 374-380 figs. 63-66.

Stephanochasminae Nicoll, emend., included in Acanthocolpidae, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 377.

Stephanochasmus casus Linton in intestine of *Pagrosomus auratus* p. 368, *japonicus* sp. n. in intestine of *Dasycotus setiger* and caeca of *Arteidiellus pacificus*, larvae in *Lotella physis* and *Engraulis japonica*, Japan, pp. 369-374 figs. 59-62, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.

Stephanostomum lineatum in intestine and caeca of *Laemonema barbatulum*, *Urophycis cirratus* and *U. regius* pp. 286-287 figs. 35-37, *microstephanum* in *Epinephelus niveatus* pp. 287-289 figs. 38-41, spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Tormopsolus orientalis sp. n. in intestine of *Seriola quinqueradiata* and *S. aureovittata*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 380-383 figs. 67, 68.

Haploporoidea.

FELLODISTOMATIDAE.

Bacciger Nicolli sp. n. in stomach of *Atherina presbyter*, Atlantic, pp. 471-476, *bacciger* (Rud.) Nicoll in intestine of *Atherina hepsetus* and *A. boyeri*, Mediterranean, anatomy, biology and systematics, pp. 438-476 33 figs., PALOMBI Pubb. Staz. Zool. Napoli 13 1934.—*B. bacciger* (Rud.), cercariae and sporocysts in *Donax vittatus*, *Pholas candida*, *Tapes decussatus* etc., PALOMBI Pubb. Staz. Zool. Napoli 14 1934 pp. 68-72 figs. 13-16.

Benthotrema gen. n. Fellodistomatidae, *plenum* sp. n. in (?) body cavity of unidentified lizard-fish, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 282-284 figs. 27, 28.

Deretrema fusillus Linton in intestine and gall bladder of *Abudefduf marginatus*, *Decodon puellaris* and *Upeneus parvus*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 283-284 fig. 29.

Discogaster gen. n. Fellodistomatidae, *ostracionis* pp. 418-420 fig. 83, *minor* p. 419 spp. n. in intestine of *Ostracion diaphanum*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934.—*Discogaster* preocc., renamed *Discogasteroides*, STRAND Folia Zool. Riga 6 1934 p. 271.

Discogasterinae subf. n. of Fellodistomatidae, type *Discogaster*, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 p. 420 [sc. *Discogasteroidinae*].

Discogasteroides gen. nom. n. pro *Discogaster* Yamaguti 1934 nec Burmeister, STRAND Folia Zool. Riga 6 1934 p. 271.

Fellodistomatidae Nicoll, key to genera, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 p. 284.

Lintonium vibex (Linton) in oesophagus of *Monacanthus cirrifer* and *Cantherines unicornu*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 407-408.

Lissiloma gen. n. Fellodistomatidae, *brotulae* sp. n. in intestine of *Brotula barbata*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 280-282 figs. 24-26.

Lomaphorus gen. n. Fellodistomatidae, *wardi* sp. n. in intestine of *Caelorhynchus carminatus* and *Urophycis regius* pp. 276-278 figs. 17-19, *monolenei* in *Monolene antillarum* pp. 278-279 figs. 20, 21, *gracilis* in *Peristedion miniatum* pp. 279-280 figs. 22, 23, spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

Megenteron gen. n. Fellodistomatidae, *crassum* sp. n. in intestine of *Diplacanthopoma brachysoma*, Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934 pp. 275-276 figs. 14-16.

Paradiscogaster gen. n. Fellodistomatidae, *pyriformis* sp. n. in a pleuronectid fish, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 420-422 fig. 85.

Parantorchis gen. n., Fellodistomatidae, *chaetodon* [t] is sp. n. in intestine of *Chaetodon* sp., Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 412-415 fig. 80.

Proctoeces maculatus (Looss) in *Sparus*, *Pagrosomus* and *Epinephelus* spp., *major* sp. n. in intestine of *Pagrosomus auratus*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 410-412 fig. 79.

Pycnadena piriforme sp. n. in intestine of fish, *Monacanthus hispidus*, Porto Rico, PRICE Smithson Misc. Coll. 91 vii 1934 pp. 2-3 pl. i fig. 2.

Rhodotrema skryabinii in intestine of *Lycodes agnostus* p. 40 pl. ii fig. 10, *problematicum* in stomach and intestine of *Lysodes agnostus* and *Hippoglossoides platessoides* p. 41 pl. ii fig. 11, spp. n. Barents and Kara seas, ISAITSCHIKOW Trans. Oceanogr. Inst. Moscow 3 1933.

Steringophorus furciger (Olsson) in *Bothrocara zesta* and *Furcimanus nakamurae*, Japan, YAMAGUTI Japan. J. Zool. Tokyo 5 1934 pp. 405-406.—*S. magnus* in intestine of unidentified "eel-like fish" pp. 271-273 figs. 11, 12, *profundus* in *Argentina striata* pp. 273-274 fig. 13, spp. n. Florida, MANTER Pap. Tortugas Lab. Carnegie Inst. 28 1934.

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Echinostomatoidea.

ECHINOSTOMATIDAE.

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Clinostomatoidea.

CLINOSTOMATIDAE.

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Paramphistomatoidea.

PARAMPHISTOMATIDAE.

Cephaloporus gen. n. Paramphistomidae, *monacanthi* sp. n. in oviduct of *Monacanthus cirrhifer*, Mutu Bay, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 526-529 fig. 141.

Diplodiscus amphichrus sp. n. in rectum and intestine of *Rana* spp., Philippine Is., TUBANGUI Philipp. J. Sci. Manila 52 1933 pp. 167-169 pl. i figs. 1, 2.

Nematophila gen. n. Paramphistomidae, type *Amphistoma grande* Dies. in intestine of Chelonians, TRAVASSOS Mem. Inst. Oswaldo Cruz. Rio de Jan. 28 1934 pp. 268-269 pl. li fig. 5, lii fig. 6.

Opisthoporinae Price renamed Teloportiinae, STUNKARD Zool. Anz. Leipzig 106 1934 p. 219.

Schizamphistomoides tabascensis sp. n. in intestine of freshwater turtle *Dermatemys mawii*, Mexico, CABALLERO & SOKOLOFF An. Inst. Biol. Mexico 5 1934 pp. 41-44 3 figs.

GASTRODISCIDAE.

Gastrodiscus polymastos in intestine of a stute, Dutch East Indies, SMIT Deutsch. Tierarztl. Woch. Hanover 30 1922 pp. 528-529 fig. 12.

Homalogaster Poirieri Giard and Billet in ox, Dutch East Indies, SMIT Deutsch. Tierarztl. Woch. Hanover 30 1922 pp. 530-531 fig. 13.

OPISTHOLEBETIDAE.

Gyliauchen papillatus (Goto and Matsudaira) in rectum of *Siganus fuscescens*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 5 1934 pp. 529-530.

Paragyliauchen gen. n. Opistho-
lebetidae, *chaetodon*[?] sp. n. in rectum
of *Chaetodon* sp., Japan, YAMAGUTI
Japan. J. Zool. Tokyo 5 1934 pp.
530-533 figs. 142, 143.

Telotrema caudatum Ozaki 1933 prob-
ably referable to *Gyliauchen* Nicoll,
YAMAGUTI Jap. J. Zool. Tokyo 5 1934
p. 529.

ANGIODICTYIDAE.

Hexangium sigani Goto & Ozaki in
small intestine of *Siganus fuscescens*,
Japan, YAMAGUTI Jap. J. Zool. Tokyo
5 1934 p. 533 fig. 144.

Notocotyloidea.

NOTOCOTYLIDAE.

Notocotylus parvioratus in caecum of
Olor bewicki jankowskii pp. 558-559
fig. 6, *magnioratus* in caecum of *Anser*
albifrons and *Aix galericulata*, pp. 559-
561 fig. 1 spp. n. Japan, YAMAGUTI
Jap. J. Zool. Tokyo 5 1934.—*N. hassalli*
sp. n. in caecum of meadow mouse,
Microtus pennsylvanicus, N. America,
McINTOSH & McINTOSH Proc. Helminth.
Soc. Washington 1 1934 pp. 30-37
figs. 11, 12.

Paramonostomum elongatum sp. n. in
caecum of *Olor bewicki jankowskii* and
O. cygnus, Korea, YAMAGUTI Jap. J.
Zool. Tokyo 5 1934 pp. 561-564 fig. 8.

PRONOCEPHALIDAE.

Teloporia Fukui transferred from
Paramphistomoidea to Pronocephali-
dae, STUNKARD Zool. Anz. Leipzig 106
1934 p. 219.

Teloporiidae Fukui submerged in
Pronocephalidae, STUNKARD loc. cit.

Teloporiinae subf. nom. n. pro
Opisthoporinae Price, STUNKARD loc.
cit.

Larval Forms.

Agamodistomum norvegicum sp. n.
in diaphragm muscles of brown rat,
Epimys norvegicus, Kansas, LOEWEN J.
Parasit. Urbana 20 1934 pp. 250-251
1 fig.

Cercaria molluscipeta Lutz, Brazil,
LUTZ Mem. Inst. Oswaldo Cruz. Rio de
Jan. 27 1933 pp. 358-359 fig. 7.—*C.*
sphaerula sp. n. in *Helisoma trivolvis*
(first int. host) and *Cyclops vulgaris*

(second int. host), Michigan, THOMAS J.
Parasit. Urbana 20 1934 pp. 285-290
2 figs.—*C. helvetica* xxiv sp. n. in
sporocysts in *Limnaea stagnalis* pp. 73-
79 figs. 1-4, *helvetica* vi Dubois in
Planorbis carinatus and *P. marginatus*
pp. 79-81 fig. 5, *helvetica* xxvi Dubois
in *Planorbis marginatus* pp. 81-82
fig. 6, *monostomi* Linst. in *Bithynia*
tentaculata pp. 82-83, *helvetica* xxvii
Dubois in *Limnaea ovata*, Black Lake,
p. 83, DUBOIS Rev. suisse Zool. Geneva
41 1934.—*C. elvae* Miller p. 400,
wardlei sp. n. pp. 396-398 fig. 1, 2 in
Limnaea obrussa, *bajkovi* sp. n. in *L.*
obrussa and *Physa gyrina* pp. 398-400
fig. 3, Clear Lake, Manitoba, McLEOD
Canad. J. Res. Ottawa 10 1934.—*C.*
brachyura Lespès, anatomy and life
history, pp. 66-68 figs. 11, 12, *stunkardi*
sp. n. (= *C. brachyura* of Stunkard 1932)
p. 66 footnote 1, *ophicercera* sp. n.
sporocysts in *Tapes decussatus* and *T.*
aureus, Gulf of Naples, pp. 75-80 figs.
19-25, *setifera* Mont. (Cercaria of
Lepocreadium album Stoss.) pp. 80-84
figs. 26, 27, PALOMBI Pubbl. Staz. Zool.
Napoli 14 1934.—*C. ephemera* Nitzsch
pp. 11-16, *monostomi* Linst. pp. 16-18,
imbricata Looss pp. 18-20, *diplocotylea*
Fil. pp. 23-25, *Fasciola hepatica*
Thomas pp. 27-34, *tuberculata* Fil. pp.
34-36, *papillosa* Fil. pp. 36-38, *helvetica*
ix Dubois pp. 38-39, *lophocercera* Fil.
pp. 43-44, *echinatosides* Fil. p. 46,
echinostomi Dub. p. 47, *Echinoparyphii*
recurvati p. 50, *spinifera* La Val. p. 52,
echinata Sieb. p. 53, *Hypoderaei conoidei*
(Bloch) p. 60, *prima* Ssin. p. 73, *limnaeae*
ovatae Linst. p. 74, *Haplometrae*
cylindraceae Zed. p. 76, *cellulosa* Looss
p. 79, *vesiculosa* Dies. p. 81, *pusilla*
Looss p. 82, *nodulosa* Linst. p. 85,
virgula Fil. p. 87, *helvetica* ix Dub. p. 87,
Gorgoderae pagensteckeri Ssin. p. 93,
vitellilobae Ssin. p. 95, *cristata* La Val.
p. 100, *ocellata* La Val. p. 104, *Bil-*
harziellae polonicae Kow. p. 107, *splen-*
dens Szid. p. 111, *strigeae tardae*
Mathias p. 117, *helvetica* xxvi Dub.
p. 122, *letifera* Fuhrm. p. 125, *vivax*
Sons. p. 128, *micrura* Fil. p. 162, *grandis*
pp. 39-40, *obscura* pp. 41-43, *abyssicola*
pp. 49-50, *affinis* pp. 62-63, *laticauda*
pp. 72-73, *gracilis* pp. 77-79, *cordi-*
formis pp. 83-84, *longiremis* pp. 114-
115, *Frederiksborgensis* pp. 120-121,
linearis pp. 121-122 spp. n. in fresh-
water molluscs, Denmark, WESENBERG-
LUND K. dansk. Vidensk. Selsk. Skr.
(9) 5 iii 1934.

Cercariaeum paludinae impurae Fil. p. 165, *limnaeae obscurae* Ercol. p. 170, *limnaeae auriculariae* Fil. p. 172, *gibba* pp. 170-171, *crassa* pp. 171-172 spp. n. in freshwater molluscs, Denmark, WESENBERG-LUND K. danske Vidensk. Selsk. Skr. (9) 5 iii 1934.—*C. nephroplexis* sp. n. in *Helix albolabris* p. 335, *vagans* (Leidy) in *Helix alternata* p. 336, N. America, MARTIN J. Parasit. Urbana 20 1934.

Dicranocercaria brevicorpus in *Lymnaeus peregrinus* p. 362, *ancylina* in *Ancylus moricanda* p. 363, *problematica* in *Physa rivalis* p. 363, fig. 12, *piscipeta* in *Planorbis nigricans* p. 364 fig. 13, *segmentata* in *Physa rivalis* p. 353 fig. 2, *cerneus* in *Ampullaria lineata* p. 354, *retroocellata* in *Semisinus spica* p. 354, *maritima* in *Anomalocardia brasiliana* p. 356, *spirochorde* in *Spirulina* spp. p. 365, *articulata* in *Potamidex* sp. pp. 366-367 fig. 14, *conchicola* in *Unionidae* pp. 367-369, *phanerochorde* in *Ampullaria* spp. p. 369, *crassispira* in undetermined mollusc p. 369, *zygochorde* and *mediohyalina* in *Semisinus spica* p. 370, spp. n., *bdelloaplis* Lutz in *Planorbis immunis* pp. 360-362 figs. 11, 12, *ocellifera* Lutz in *Planorbis* spp. pp. 355-356 fig. 5, *gyrinipeta* Lutz in *Spirulina* spp. p. 359 figs. 9, 10, Brazil, LUTZ Mem. Inst. Oswaldo Cruz Rio de Jan. 27 1933.

Metacercaria of *Zoogonus mirus* Lss. in sea urchins, *Paracentrotus lividus*, *Sphaerechinus granularis* and in *Arbacia aequituberculata* pp. 4-12 figs. 1-4, *psammechini* sp. n. in *Sphaerechinus granularis* and *Psammechinus microtuberculatus* pp. 12-16 figs. 5, 6, Marseilles and Banyuls, TIMON-DAVID Bull. Inst. Océanogr. Monaco 652 1934.—*Metacercaria* of *Brachylaemus* sp. in viscera of *Helicella ericetorum*, France, DOLLEUS Ann. Parasitol. Paris 12 1934 pp. 570-575 fig. 10.—*Metacercaria acherusia* sp. n. in *Tapes decussatus* pp. 88-89 fig. 33, *metacercaria* of *Lepoecreadium album* Stoss. in *Aplysia punctata*, *Tapes decussatus* and *T. aureus* pp. 84-86 figs. 28-30, *metacercaria* of *Helicometra fasciata* (Rud.) in *Leander serratus*, *L. squilla* and *L. xiphias* pp. 86-87 figs. 31, 32, [*Gymnophallus*] *strigata* (Lebour) pp. 57-59 fig. 3, *megacoela* sp. n. in *Tapes decussatus*, pp. 59-63 figs. 4-6, [*Himasthla*] *ambigua* sp. n. encysted in gills of *Tapes decus-*

satus pp. 72-75 figs. 17, 18, Gulf of Naples, PALOMBI Pubbl. Staz. Zool. Napoli 14 1934.

CESTODA.

Cestoidea of the North Sea and Baltic fauna, SPREHN in GRIMPE & WAGLER Tierwelt Nord- Ostsee 4 c 1934 [Lief. 26] pp. 61-91 21 figs.

Amphilinidea.

AMPHILINIDAE.

Austramphilininae subf. nom. n. pro Kosterininae Ihle & Ihle-Landenberg, JOHNSTON Proc. Linn. Soc. N.S.W. 59 1934 p. 66.

Kosterina Ihle & Ihle-Landenberg 1932 syn. of *Austramphilina* Johnston 1931, JOHNSTON loc. cit.

Kosterininae Ihle & Ihle-Landenberg replaced by Austramphilininae, JOHNSTON loc. cit.

Gyrocotylidea.

(GYROCOTYLIDAE.

Gyrocotyle urna (Gr. & Wag.) in intestine of *Chimaera ogilbyi*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 3 fig. 1, abnormal specimen, RUSZKOWSKI Ann. Parasit. Paris 12 1934 pp. 484-485 fig. 1.

Diphyllidea.

[Echinobothriidea.]

ECHINOBOETHRIIDAE.

Echinobothrium typus v. Ben. in *Raja clavata*, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934 pp. 363-365 fig. 9.

Tetrarhynchidea.

FLORICIPITIDAE.

Floriceps elongatus (Rud.) in intestine of *Isurus glaucus*, Pacific, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 96-99 figs. 152-157.

Floricipitidae fam. n. type *Floriceps*, DOLLEUS in Kükenthal & Krumbach, Handb. der Zool. Leipzig 2 1931 pp. 284, 285.

DIBOTHRIORHYNCHIDAE.

Dibothriorhynchus squali (Martinière) in *Isurus glaucus*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 85-88 figs. 127-130.

SPHYRIOCEPHALIDAE.

Sphyricephalus viridis (Wagener) in stomach of *Isurus glaucus*, Pacific, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 94-95 figs. 145-151.

TENTACULARIIDAE S.L.

(TETRARHYNCHIDAE.)

Dasyrhynchus ingens (Linton) in intestine of *Prionace glauca*, Pacific, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 99-101 figs. 158-165.

Lintoniella gen. n. Tetrarhynchidae, type *Rhynchobothrium speciosum* Lint. in fishes, Inland Sea, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 108-110 figs. 180-182.

Nybelinia pintneri sp. n. in stomach of *Prionace glauca*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 90-94 figs. 137-144.

Pintneriella gen. n. Tetrarhynchidae, *Musculicola* sp. n. in flesh of *Pagrosomus unicolor* and *Epinephelus akaara*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 107-108 figs. 177-178.

Pterobothrium dasybati sp. n. in intestine of *Dasybatus akajei*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 101-104 figs. 166-171.

Rhynchobothrius tenuicollis Dies. p. 366 fig. 10, *minutus* V. Ben. in *Trygon pastinaca* p. 367, *erinaceus* V. Ben. in *Raja* and *Trygon* p. 368, *tetrabothrius* V. Ben. in *Trygon pastinaca* pp. 368-369, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934.

Tentacularia araya sp. n. from sting ray, *Trygon* sp., river Amazon, WOODLAND Proc. Zool. Soc. London 1934 pp. 35-36 pl. i figs. 5-10.—*T. coryphaenae* Bosc (*Tetrarhynchus macrobothrius* Rud.) in *Prionace glauca*, and *Scoliodon walbeekmi*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 88-90 figs. 131-136.

Tetrarhynchus spec. (larva) encysted on intestinal wall of *Dentex macrophthalmus*, Algeria, DOLLFUS Bull. Trav. Stat. Aquicult. Castiglione Algiers 1934 pp. 123-133 7 figs.

Pseudophyllidea.

[Bothriocephalidea.]

CARYOPHYLLAEIDAE.

Caryophyllaeus japonensis sp. n. in intestine of *Cyprinus carpio* pp. 5-9 figs. 4-14, *gotoi* Motomura in *Misgurnus anguillicaudatus* pp. 9-10, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.

Glaridacris limnodrili sp. n. in intestine of *Pseudogobio esocinus* and *Misgurnus fossilis*, larva in body-cavity of *Limnodrilus* sp., Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 10-12 figs. 15, 16.

CYATHOCEPHALIDAE.

Spathebothriinae subf. n. of Cyathocephalidae, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 5.

Spathebothrium simplex Lint. in intestine of *Crystallias matsushimae*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 4-5 figs. 2, 3.

AMPHICOTYLIDAE.

Abothrium rugosum (Goeze) in *Gadus macrocephalus* and *Theragra chalcogramma*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 36 fig. 58.

ECHINOPHALLIDAE.

Echinophallus japonicus sp. n. in caeca of *Psenopsis anomala*, Inland Sea, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 37-40 figs. 59-65.

TRIAENOPHORIDAE.

Anchistrocephalus microcephalus (Rud.) in intestine of *Mola mola*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 34 fig. 57.—*A. ophicephalianus* sp. n. in *Ophiocephalus argus*, China, TSENG J. Sci. Nat. Univ. Shantung 1 1933 pp. 335-336 pl. vii figs. 19-21.

Fistulicola plicatus (Rud.) in intestine of *Xiphias gladius*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 35-36.

BOTHRIOCEPHALIDAE.

Bothriocephalus japonicus in intestine of *Anguilla japonica* pp. 13-15 figs. 17-19, *acheilognathi* in *Acheilognathus rhombea* pp. 15-16 figs. 20-22, *opsarichthydis* in *Opsarichthys uncirostris* pp. 17-19 figs. 23-27, *sciaenae* in *Sciaena schlegeli* pp. 19-21 figs. 29-32 spp. n. Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.

Oncodiscus gen. n. Bothriocephalidae, *sauridae* sp. n. in intestine of *Saurida argyrophanes*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 26-29 figs. 42-48.

Parabothriocephalinae subf. n. of Bothriocephalidae, for *Parabothriocephalus*, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 34.

Parabothriocephaloides gen. n. Bothriocephalidae, *segmentatus* sp. n. in intestine of *Psenopsis anomala*, Inland Sea, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 31-34 figs. 54-56.

Parabothriocephalus gen. n. Bothriocephalidae, *gracilis* sp. n. in intestine of *Psenopsis anomala*, Inland Sea, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 29-31 figs. 49-53.

Ptychobothrium belones (Duj.) in intestine of *Tylosurus schismatorhynchus* Pacific coast, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 23-26 figs. 37-41.

Taphrobothrium japonense Lühe in intestine of *Muraenesox cinereus*, Inland Sea, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 21-23 figs. 33-36.

DIPHYLLOBOTHRIDAE.

Chlamydocephalus xenopi (Ortlepp) in duodenum of frog, *Xenopus laevis*, Uganda, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 p. 224.

Digramma alternans (Rud.) in body cavity of *Cyprinus carassius*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 40-41 fig. 56.

Diphylobothrium laruei sp. n., plerocercoid encysted in *Leucichthys* spp., adult experimentally in dog and cat, N. America VERGEER Anat. Rec. Philadelphia 60 1934 p. 77.—*D. mansonii* (Cobbold) in crow, *Urocissa caerulea* Gould, Formosa, SUGIMOTO Rep. Dept. Agric. Formosa 64 1934 pp. 4-6 5 text-figs. pl. ii fig. 1.—*D. minus* (Chol.), specific differentiation from *D. latum*, TALYSIN Zool. Anz. Leipzig 106 1934 pp. 209-215 3 figs.

Sparganum pseudosegmentatum sp. n. encysted in stomach wall and caeca of *Lota maculosa*, N. America, VERGEER Anat. Rec. Philadelphia 60 1934 p. 77.

Tetraphyllidea.

[Phyllobothriidea.]

PHYLLOBOTHRIDAE.

Anthobothrium cornucopiae V. Ben* in *Galeus canis* and *Mustelus vulgaris*, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934 pp. 357-359 fig. 6.—*A. laciniatum* Lint. in *Scoliodon walbeekmi* pp. 55-56, *parvum* sp. n. in *Alopias vulpinus* pp. 56-58 fig. 89, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.—*A. pristis* sp. n. from Amazon swordfish, *Pristis perotteti*, pp. 33-35 pl. i figs. 1-4, *karuatayi* in *Glanidium* sp. pp. 36-38 pl. i figs. 11-15 spp. n. river Amazon, WOODLAND Proc. Zool. Soc. London 1934.

Ceratobothrium xanthocephalum Montic. in *Isurus glaucus*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6, 1934 pp. 69-71 figs. 111-112.

Echeneibothrium variabile v. Ben. in *Raja clavata* pp. 359-362 fig. 7, *minimum* v. Ben. in *Trygon pastinaca* pp. 362-363, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934.—*E. tobijei* sp. n. in *Myliobatis tobijei* pp. 60-62 figs. 92-97, *shipleyi* (Southwell) in *Dasybatus akajei* pp. 62-64 fig. 98, *flexile* (Lint.) in *Dasybatus akajei* p. 64, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.—*E. hui* sp. n. in *Dasyatis akajei*, China, TSENG J. Sci. Nat. Univ. Shantung 1 1933 pp. 332-333 pl. iv fig. 11, pl. vi fig. 13.

Myzophorus gen. n. Phyllobothriidae *admonticellia* sp. n. in intestine of siluroid fishes, *Pirinampus pirinampus* and *P. typus* (?), river Amazon, WOODLAND Parasitol. Cambridge 26 1934 pp. 145-148 figs. 10-14.

Orygmatobothrium plicatum sp. n. in intestine of a skate, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 58-60 figs. 90, 91.

Pelichnobotriniinae subf. n. of Phyllobothriidae, type *Pelichnobotrium* Montic., YAMAGUTI Jap. J. Zool. Tokyo 6 1934 p. 73.

Pelichnobotrium speciosum Montic. in *Prionace glauca*, Pacific, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 71-73 figs. 113-116.

Phyllobothrium gracile Wedl pp. 354–356 fig. 5, *lactuca* v. Ben. pp. 356–357 in *Trygon pastinaca*, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934.—*P. marginatum* in *Squatina japonica* pp. 48–51 figs. 79–83, *prionacis* in *Prionace glauca* pp. 51–52 figs. 84, 85, *dasybati* in *Dasybatus akajei* pp. 52–54 figs. 86, 87 spp. n. Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.

Prscobothrium japonicum sp. n. in intestine of *Prionace glauca*, Pacific Ocean, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 76–78 figs. 120, 121.

ONCHOBOTHRIDAE.

Acanthobothrium coronatum Rud. in *Trygon pastinaca* and *Raja clavata* pp. 346–350 figs. 1, 2, *dujardinii* v. Ben. in *Raja clavata* pp. 350–352, *ponticum* sp. n. in *Raja clavata* pp. 352–354 figs. 3, 4, Black Sea, BORCEA Ann. sc. Univ. Jassy 19 1934.—*A. cestraciontis* in *Cestracion japonicus* pp. 65–68 figs. 100–107, *dasybati* in *Dasybatus akajei* pp. 68–69 figs. 108–110, spp. n. Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934.—*A. tsingtaoensis* sp. n. in *Dasyatis akajei*, China, TSENG J. Sci. Nat. Univ. Shantung 1 1933 p. 328 pl. i figs. 2, 3.

PROTEOCEPHALIDAE.

Amphilaphorchidinae subf. n. Proteocephalidae, for *Amphilaphorchis* gen. n., WOODLAND Parasitol. Cambridge 26 1934 p. 141.

Amphilaphorchis gen. n. Proteocephalidae, *piranabu* pp. 141–144 figs. 1–5, *myoides* pp. 144–145 figs. 6–9 spp. n. in intestine of Siluroid fish, *Pirinampus pirinampus*, river Amazon, WOODLAND Parasitol. Cambridge 26 1934.

Endorchidinae subf. n. Proteocephalidae, type *Endorchis* gen. n., WOODLAND Parasitol. Cambridge 26 1934 pp. 270–272 fig. 1.

Endorchis gen. n. Proteocephalidae, *piraebea* sp. n. in siluroid fish, *Brachyplatystoma filamentosum*, Amazon, WOODLAND Parasitol. Cambridge 26 1934 pp. 268–272 pl. x figs. 1–5.

Gangesia parasiluri sp. n. in intestine of *Parasilurus asotus*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 46–48 figs. 77, 78.

Megathylacus gen. n. Proteocephalidae, *jandia* sp. n. in siluroid fish, *Rhamdia* sp.

river Amazon, WOODLAND Proc. Zool. Soc. London 1934 pp. 38–40 pl. ii figs 16–22.

Nomimoscolex gen. n. Zygobothriinae, *piraebea* sp. n. in *Brachyplatystoma filamentosum*, Amazon, WOODLAND Parasitol. Cambridge 26 1934 pp. 272–273 pl. x figs. 6–10.

Ophiotaenia barbouri sp. n. in intestine of reptile, *Tretanorhynchus variabilis*, Cuba, VIGUERAS Mem. Soc. Cubana Hist. nat. 8 1934 pp. 231–234 4 figs.

Othinoscolecinae Woodland replaced by Peltidocotylinae, FUHRMANN in WOODLAND Parasitol. Cambridge 26 1934 p. 148.

Othinoscolex Woodland 1933 syn. of *Peltidocotyle*, FUHRMANN loc. cit.

Peltidocotyle rugosa Woodland 1933 renamed *Spatulifer surubim*, WOODLAND Parasitol. Cambridge 26 1934 pp. 148–149.

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Spatulifer gen. n. Proteocephalidae, *surubim* sp. nom. n. pro *Peltidocotyle rugosa* Woodland 1933, WOODLAND Parasitol. Cambridge 26 1934 p. 148.

MONTICELLIDAE.

Amphoteromorphus piraebea sp. n. in intestine of *piraebea*, *Brachyplatystoma filamentosum*, Amazon, WOODLAND Parasitol. Cambridge 26 1934 pp. 274–275 pl. x figs. 11–14.

Ephedrocephalus lobosum in *Luciopimelodus pati*, Argentine, MACDONAGH Notas Prelim. Mus. La Plata 2 1934 pp. 273–276 1 fig.

Monticellia megacephala sp. n. in *Platystomichthys sturio*, river Amazon, WOODLAND Proc. Zool. Soc. London 1934 pp. 41–43 pl. ii figs. 27–30.

CEPHALOBOTHRIDAE.

Discobothrium japonicum sp. n. in intestine of *Narke japonica*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 78-80 figs. 122-124.

Tylocephalum squatinæ sp. n. in *Squatina japonica*, Japan, YAMAGUTI Jap. J. Zool. Tokyo 6 1934 pp. 74-76 figs. 117-119.

Taeniidea.

MESOCESTOIDIDAE.

Mesocestoides lineatus f. *lineata* (Goeze) in *Canis lupus* and *Mephitis occidentalis* pp. 475-480 figs. 1-9, f. *litterata* (Batsch) in fox and cat pp. 480-483 figs. 10-14, f. *caesta* (Cameron) in dog, cat and fox pp. 483-484 figs. 15-17, *perlatus* (Goeze) in *Circæus gallicus* and *Milvus korshun* pp. 484-487 figs. 18-23, Palestine, WITENBERG Arch. zool. Torino 20 1934.

ANOPLOCEPHALIDAE.

Anoplocephala magna (Abildg.) in zebra, India, JOHRI Rec. Ind. Mus. Calcutta 36 1934 pp. 154-155.

Bertiella kapul in intestine of spotted cuscus, *Phalanger maculatus kræmeri*, Admiralty Is., pp. 413-416 figs. 1-3, 8, *anapolytica* in colon of *Rattus rattus brevicaudatus*, Sumatra, pp. 416-418 figs. 4-7 spp. n., BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934.

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Moniezia benedeni (Moniez) in sheep, Argentine, MACDONAGH Notas Prelim. Mus. La Plata 2 1934 pp. 276-279.—*M. mettami* sp. n. from wart-hog, *Phacochoerus aethiopicus*, Uganda, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 pp. 587-590.

Oochoristica osheroffi sp. n. in intestine of *Pityopsis sayi*, MEGGITT J. Parasit. Urbana 20 1934 pp. 181-189.—*O. lygosomæ* sp. n. in skink, *Lygosoma punctatum*, Ceylon, BURT Ceylon J. Sci. B 18 1933 pp. 1-7 2 figs.—*O. thapari* sp. n. in *Calotes* sp., India, JOHRI Rec. Ind. Mus. Calcutta 36 1934 p. 156 fig. 1.

Prototaenia Baer 1927 probable syn. of *Bertiella* Stiles & Hassall, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 p. 412.

DAVAINEIDAE.

Cotugnia bahli in *Turtur suratensis* p. 157, *govinda* in *Milvus govinda* p. 158 fig. 2a, *intermedia* in *Columba intermedia* p. 159 fig. 2b, *januaria* in *Gallus domesticus* pp. 159-161 figs. 3a, 4, *noctua* in *Columba intermedia* p. 161 fig. 3b, spp. n., India, JOHRI Rec. Ind. Mus. Calcutta 36 1934.

Davainea s.l., remarks on classification, LÓPEZ-NEYRA Bol. Univ. Granada 6 27 1934 pp. 47-55.—*D. tetragona* var. *lagopodis* Baylis 1919 prob. syn. of *Raillietina* (*Paroniella*) *urogalli* Modeer, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 p. 593.

Ophryocotylodes monocantis sp. n. in a tree pie, *Dendrocitta rufa*, India, MOGHE & INAMDAR Rec. Ind. Mus. Calcutta 36 1934 pp. 10-11 figs., 7, 8.

Raillietina cesticillus (Molin) p. 591 figs. 15-17, *echinobothrida* (Mégn.) p. 591 figs. 18-20, *tetragona* (Molin) p. 592 figs. 21-23, Kansas, FERRY Amer. Midl. Nat. 15 1934.—(*R.*) *penetrans nova* subsp. n. in Indian mynah pp. 163-165 fig. 5a, (*Skrjabinia*) *kakia* sp. inq. in *Corvus splendens* pp. 165-166 fig. 5b, India, JOHRI Rec. Ind. Mus. Calcutta 36 1934.—(*R.*) *sartica* var. *massiliensis* var. n. in intestine of sparrow, *Passer domesticus*, Marseilles, JOYEUX & TIMON DAVID Ann. Mus. Hist. Nat. Marseilles 26 ii 1934 pp. 5-6.—*R.* (*Paroniella*) *molpastina* in red-vented bulbul, *Molpastes haemorrhous* pp. 7-8 figs. 1-3, *duosyntesticulata* in *Xantholaema haematoccephala* pp. 8-9 figs. 4-6 spp. n. India, MOGHE & INAMDAR Rec. Ind. Mus. Calcutta 36 1934.—*R.* (*Paroniella*) *woodlandi* sp. n. from guinea-fowl, Uganda, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 pp. 590-593 1 fig.

DILEPIDIDAE.

Amoebotaenia sphenoides (Raill.) in fowl, Kansas, FERRY Amer. Midl. Nat. 15 1934 p. 589 pl. xxi.

Anomotaenia rustica Neslobinsky in *Chelidonaria urbica* p. 7, *passerum* sp. n. in *Turdus merula* pp. 8-11 fig. 1, *præcox* (Krabbe) in *Chelidonaria urbica* pp. 11-13 figs. 2, 3, *depressa* (Siebold) in *Cypselus apus* p. 13 fig. 4, Marseilles,

JOYEUX & TIMON-DAVID Amer. Mus. Hist. Nat. Marseilles 26 ii 1934.—*A. hoepflii* sp. n. in *Gypaetus barbatus*, China, TSENG J. Sc. Nat. Univ. Shantung 1 1933 pp. 96–98 3 figs.

Biuterina intricata (Krabbe) in *Upupa epops*, India, MOGHE & INAMDAR Rec. Ind. Mus. Calcutta 36 1934 pp. 14–15 figs. 17–20, type of *Neyraia* gen. n., JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseille 26 1934 p. 16.

Choanotaenia infundibuliformis (Goeze) in fowl, Kansas, FERRY Amer. Midl. Nat. 14 1934 p. 590 pl. xxii figs. 8–11.—*C. musculosa* (Fuhrmann) in *Sturnus vulgaris* and *Sylvia hortensis*, France, JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseilles 26 ii 1934 pp. 15–16 fig. 5.—*C. strigium* sp. n. in *Otus scops*, Marseilles, JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseilles 26 vi 1934 pp. 6–7 figs. 1, 2.—*C. gondwana* sp. n. in *Passer domesticus*, India, INAMDAR Z. Parasitenk. Berlin 7 1934 pp. 204–206 figs. 15–17.

Eugonodaeum ganjeum in *Acridotheres tristis* pp. 166–169 figs. 6, 7a, *testifrontosa* in *Gallinago coelestis* p. 169 fig. 7b, spp. n., India, JOHRI Rec. Ind. Mus. Calcutta 36 1934.

Gidhaia gen. n. Dilepidinae, *indica* sp. n. in *Gyps indicus*, India, JOHRI Rec. Ind. Mus. Calcutta 36 1934 pp. 169–171 fig. 8.

Liga gallinulae (v. Ben.) in *Gallinula chloropus*, DOLLFUS Ann. Parasitol. Paris 12 1934 pp. 267–272 4 figs.

Neyraia gen. n. Paruterininae, type *Taenia intricata* Krabbe in *Upupa epops*, JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseilles 26 ii 1934 pp. 16–18 figs. 6, 7.

Paricterotaenia parvirostris (Krabbe) in *Chelidonia urbana* and *Hirundo rustica*, France, JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseilles 26 ii 1934 p. 14.

Paruterina septotesticulata sp. n. in intestine of *Coracias indica*, India, MOGHE & INAMDAR Rec. Ind. Mus. Calcutta 36 1934 pp. 12–14 figs. 13–16.—*P. purpurata* (Duj.) in duodenum of *Sylvia melanocephala*, France, JOYEUX & TIMON-DAVID Ann. Mus. Hist. Nat. Marseilles 16 ii 1934 pp. 18–20 figs. 8, 9.

Similuncinus totani-ochropodos sp. n. in *Totanus ochropus*, India, INAMDAR Z. Parasitenk. Berlin 7 1934 pp. 201–204 figs. 9–14.

Uncinaria sudanea Woodland 1928 syn. of *Octopetalum longicirrosum* Baer, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 p. 594.

HYMENOLEPIDIDAE.

Aploparaksis veitchi sp. n. in intestine of grey teal, *Querquedula gibberifrons*, Queensland, BAYLIS Parasitol. Cambridge 26 1934 p. 131 fig. 2.

Diorchis magnicirrosa sp. n. in intestine of a "dove," India, MOGHE & INAMDAR Rec. Ind. Mus. Calcutta 36 1934 pp. 11–12 figs. 9–12.—*D. crassicollis* in *Columba livia dom.* pp. 36–38 6 figs., *formosensis* in *Anas platyrhynchos* pp. 38–40 6 figs., spp. n. Formosa, SUGIMOTO Rept. Dept. Agric. Formosa 64 1934.

Fimbriaria fasciolaris (Pallas) in *Anas platyrhynchos dom.*, Formosa, SUGIMOTO Rept. Dept. Agric. Formosa 64 1934 pp. 41–43 4 figs.

Hymenolepis toxometra Baer, 1932, syn. of *H. scutigera* (Duj.) p. 227, *singularis* Cholodk. in *Sorex araneus*, notes on identity pp. 227–228, *diminuta* (Rud.), abnormalities in specimens from *Promomys jacksoni*, p. 339, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934.—*H. villosoides* Solowiow, morphology, SZPOTANSKA Ann. Mus. zool. polon. 10 1934 pp. 327–332 pl. liv.—*H. carioca* (Magalh.) in fowl, Kansas, FERRY Amer. Midl. Nat. 15 1934 p. 591 pl. xxii figs. 12–14.—*H. clausa* Linst. in *Columba intermedia* p. 171 fig. 9, *planestici* Mayhew in *Acridotheres tristis* p. 172 fig. 10, *rugosa birmanica* Meggitt in *Columba intermedia* p. 173 fig. 11, India, JOHRI Rec. Ind. Mus. Calcutta 36 1934.—*H. anatina* (Krabbe) pp. 13–15, *angularostris* sp. n. pp. 15–16 pl. iv fig. 2, *collaris* (Batsch) p. 18 pl. iv fig. 4, *coronula* (Duj.) p. 20 pls. ii, iii, *giraniensis* sp. n. pp. 24–26 5 figs., *gracilis* (Zeder) p. 26 2 figs., *megalops* (Nitzsch) p. 27 6 figs., *oshimai* sp. n. pp. 30–32 4 figs., *setigera* (Fröhl.) p. 34 3 figs. in *Anas platyrhynchos dom.*, *carioca* (Magalh.) p. 16 pls. ii, iii, *exigua* Yoshida p. 22 pl. i fig. 3 in *Gallus gallus*, *rugosus* Fuhrm. p. 32 3 figs. in *Columba livia*, Formosa, SUGIMOTO Rept. Dept. Agric. Formosa 64 1934.—*H. inhamata* sp. n.

in small intestine of humming-bird, *Eupetomena macroura*, Brazil, with notes on asymmetry, RIETSCHEL Zool. Anz. Leipzig **105** 1934.—*H. robertsi* sp. n. in intestine of grey teal, *Querquedula gibberifrons*, Queensland, BAYLIS Parasitol. Cambridge **26** 1934 p. 130 fig. 1.—*H. moghensis* in *Oedicnemus scolopax* pp. 198–199 figs. 1–4, *victoriata* in *Sturnopaster contra* pp. 199–201 figs. 5–8, spp. n. India, INAMDAR Z. Parasitenk. Berlin **7** 1934.

Oligorchis hierticos sp. n. in *Milvus govinda*, India, pp. 173–174 fig. 12, *paucitesticulatus* Fuhrm. transferred to *Pseudoligorchis* p. 175, JOHRI Rec. Ind. Mus. Calcutta **36** 1934.

Pseudoligorchis gen. n. Hymenolepidinae, *magnireceptaculata* sp. n. in bat, India, JOHRI Rec. Ind. Mus. Calcutta **36** 1934 pp. 174–175 fig. 13.

TAENIIDAE.

Echinococcus granulosus (Batsch) in dogs, South Africa, pp. 97–102 figs. 1, 2, *cameroni* in small intestine of *Vulpes vulpes*, England, pp. 102–103 fig. 3, *lycaontis* in small intestine of *Lycaon pictus*, Johannesburg Zool. Gard., pp. 103–106 figs. 4, 5, spp. n., ORTLEPP Onderstepoort J. Pretoria **3** 1934.

Taenia confusa Ward syn. of *T. saginata*, ANDERSON J. Parasit. Urbana **20** 1934 pp. 207–218 4 pls.—*T. gallinulae* v. Ben. assigned to *Liga*, DOLLFUS Ann. Parasitol. Paris **12** 1934 pp. 267–272 4 figs.—*T. asiotos* sp. n. in screech owl, *Otus asio*, N. America, ALVEY & KINTNER J. Parasit. Urbana **20** 1934 pp. 327–328.

NEMERTINEA.

Anopla.

Heteronemertidea ord. nom. n. pro Heteronemertini Bürger, POCHÉ Arch. Naturg. Berlin **91A** (1925) 1926 p. 392.

Palaeonemertidea ord. nom. n. pro Palaeonemertini Hubrecht, POCHÉ loc. cit.

TUBULANIDAE.

Tubulanus nothus Bürger, South Africa, WHEELER Discovery Reports Cambridge **9** 1934 pp. 225–228 text-figs. 1–4 pl. xv figs. 1, 2.

BASEODISCIDAE.

Baseodiscus antarcticus Baylis, South Atlantic, WHEELER Discovery Reports Cambridge **9** 1934 pp. 247–248 fig. 20.

JOUBINIIDAE.

Joubinia gen. nom. n. pro *Valencinia* Quatrefages, BÜRGER Nemertini in Das Tierreich Berlin Lief. **20** 1904 p. 85 footnote.

Joubiniidae fam. nom. n. pro Valenciniidae Hubrecht, BÖHMIG in KÜKENTHAL & KRUMBACH Handb. d. Zool. Leipzig **2** (3) 1929 p. 104.

Parapolia grytvikenensis sp. n. S. Atlantic, WHEELER Discovery Reports. Cambridge **9** 1934 pp. 248–250 text-figs. 21, 22 pl. xvi fig. 14.

Valencinia Quatrefages renamed *Joubinia*, BÜRGER Das Tierreich Berlin Lief. **20** 1904 p. 85 footnote.

LINEIDAE.

Cerebratulus aerugatus Bürger p. 231 text-figs. 7, 8, pl. xv fig. 5, *fuscus* McInt. pp. 232–234 text-figs. 9, 10 pl. xv fig. 8, S. Africa, *larseni* p. 256 text-fig. 28 pl. xvi fig. 8, *malvini* pp. 256–257 text-figs. 29, 30 spp. n. South Atlantic, WHEELER "Discovery" Reports Cambridge **9** 1934.

Lineus bilineatus Renier p. 228 pl. xv fig. 10, *geniculatus* (Chiaje) p. 229 fig. 5, *ruber* (Müller) p. 229 text-fig. 6 pl. xv fig. 4 S. Africa, *corrugatus* McInt., South Atlantic pp. 250–254 figs. 23–27, *longifinus* (Hubrecht) p. 255, *roseocephalus* sp. n. Falkland Is. pp. 255–256 pl. xvi fig. 24, WHEELER Discovery, Reports Cambridge **9** 1934.

Enopla.

Hoplonemertidea ord. nom. n. pro Hoplonemertini Hubrecht, POCHÉ Arch. Naturg. Berlin **91A** (1925) 1926 p. 394.

DREPANOPHORIDAE.

Drepanophoridae trib. nom. n. pro Reptantia Brinkmann, POCHÉ Arch. Naturg. Berlin **91A** (1925) 1926 p. 395.

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Hubrechtionemertes lankesteri Hubr., Nova Scotia coast, STIASNY-WIJNHOF Quart. J. Micr. Sc. London 77 1934 pp. 179-188 pl. xiii figs. 12-17.

Punnettia splendida Kef., N. Atlantic, STIASNY-WIJNHOF Quart. J. Micr. Sc. London 77 1934 pp. 168-173 pl. xi figs. 1-5.

UNIPORIDAE.

Uniporidae fam. n. of Polystilifera, Poche Arch. Naturg. Berlin 91A (1925) 1926 p. 396.

Uniporus borealis (Punn.), Davis Strait, STIASNY-WIJNHOF Quart. J. Micr. Sc. London 77 1934 pp. 173-179 pl. xii figs. 6-11.

NECTONEMERTIDAE.

Nectonemertes mirabilis Verrill p. 284 fig. 61, *kempi* sp. n. pp. 284-285 fig. 62, pelagic, South Atlantic, WHEELER Discovery Reports Cambridge 9 1934.

PELAGONEMERTIDAE.

Pelagonemertes rollestoni Moseley, pelagic, South Atlantic, WHEELER Discovery Reports Cambridge 9 1934 pp. 285-287 fig. 63.

Pelagonemertoidae trib. nom. n. pro Pelagica Brinkmann, Poche Arch. Naturg. Berlin 91A (1925) 1926 p. 395

Probalanemertes irenae sp. n. pelagic, South Atlantic, WHEELER Discovery Reports Cambridge 9 1934 pp. 287-288 figs. 64, 65.

PLANKTONEMERTIDAE.

Crassonemertes robusta Brinkmann pelagic, South Atlantic, WHEELER Discovery Reports Cambridge 9 1934 p. 283 fig. 60.

BATHYNEMERTIDAE.

Bathynemertes hardyi sp. n. p. 280 text-figs. 56, 57, pl. xvi fig. 5, *hubrechtii* Brinkmann pp. 281-283 figs. 58, 59, pelagic, South Atlantic, WHEELER Discovery Reports Cambridge 9 1934.

SIBOGONEMERTIDAE.

Sibogonemertoidae subtrib. nom. n. pro Archireptantia Wijnhoff, Poche Arch. Naturg. Berlin 91A (1925) 1926 p. 396.

AMPHIPORIDAE.

Amphiporus pulcher Johnst., S. Africa pp. 238-239 pl. xv fig. 13, *falklandicus* sp. n. p. 267 fig. 36d, *gerlachei* Bürger p. 258 figs. 31, 36c, *inexpectatus* sp. n. p. 258 fig. 32, *leointei* Bürger pp. 259-262 figs. 33-36 pl. xvi fig. 9, *marioni* Hubrecht pp. 262-263 figs. 36-38, *moseleyi* Hubrecht pp. 263-264 fig. 39, pl. xvi figs. 3, 18, *schollaerti* sp. n. p. 265 figs. 40, 41, *scoresbyi* sp. n. pp. 265-266 figs. 42, 43, *spinusos* Bürger pp. 266-269 text-figs. 44, 45 pl. xvi fig. 22, South Atlantic, WHEELER Discovery Reports 9 1934.

Zygonemertes capensis sp. n. S. Africa, WHEELER Discovery Reports Cambridge 9 1934 pp. 239-243 text-figs. 13-16 pl. xv figs. 3, 6, 12.

EMPLECTONEMERTIDAE.

Emplectonema ophiocéphala (Schmarda) S. Africa, WHEELER Discovery Repts. Cambridge 9 1934 pp. 234-237 text-figs. 11, 12, pl. xv fig. 14.

Nemertopsis tenuis Bürger, S. Africa, WHEELER Discovery Reports Cambridge 9 1934 p. 237 pl. xv fig. 7.

PROSORHOCHMIDAE.

Geonemertes dendyi Dakin, new to Germany, with differential table of the species of the genus, STAMMER Zool. Anz. Leipzig 106 1934 pp. 305-311 fig. 1.

PROSTOMATIDAE

(TETRASTEMMATIDAE).

Oerstedia maculata sp. n. S. Africa, WHEELER Discovery Reports Cambridge 9 1934 pp. 245-246 text-fig. 18 pl. xv fig. 11.

Tetramemma candidum O. F. M. p. 243 pl. xv fig. 15, *nigrolineatum* sp. n. p. 244 text-fig. 17 pl. xv fig. 9, S. Africa, *esbensenii* sp. n. p. 270 figs. 46, 47 pl. xvi figs. 12, 23, *georgianum* Bürger pp. 271-274 fig. 48 pl. xvi figs. 2, 13, *hansii* Bürger p. 274 fig. 50 pl. xvi figs. 6, 15, *longistriatum* sp. n. pp. 275-276 fig. 51, pl. xvi fig. 7, *maivikenensis* sp. n. p. 276 pl. xvi fig. 10, *stanleyi* sp. n. p. 276 pl. xvi fig. 12, *validum* Bürger p. 277 text-figs. 52, 53 pl. xvi fig. 1, *weddelli* sp. n. pp. 278-279 figs. 54, 55 South Atlantic, WHEELER Discovery Reports Cambridge 9 1934.

MALACOBDELLIDAE.

Malacobdellidea ord. nom. n. pro Malacobdellini Lang and Bdeionemeritini Wijnhoff, POCHÉ Arch. Naturg. Berlin 91A (1925) 1926 p. 391.

MESOZOA.

Mesozoa, general account and classification, NERESHEIMER in GRIMPE, Tierwelt der Nord-und Ostsee Leipzig 2H 10 pp. 4 figs.

Dicyema Monodi pp. 176-182 figs. 1-9, *megalcephalum* pp. 183-186 figs. 10-15, spp. n. in an octopus, *Octopus vulgaris* or *O. rugosus*, W. Africa, NOUVEL Bull. Soc. Zool. Fr. 59 1934.

NEMATHELMINTHES.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

Monograph.—Monograph of the Oncholaiminae, KREIS 778.

Text-Books.—Nematode parasites of domestic animals, BOUGHTON 167; Internal parasites of domestic animals, CAMERON, 224; Text-book of soil nematodes, FILIPJEV, 460; Text-book of veterinary helminthology, MÖNNIG, 959.

Reviews, Addresses.—Teaching of helminthology, BLACKLOCK, 147; Curiosities in human parasitology, HOEPPLI, 645; Parasitological curiosities, HOEPPLI, 646; Place of parasitology in animal conservation, LA RUE, 838; Helminthology in comparative medicine, LEIPER, 818; Parasitic nematode infections in time of war, MANDOU, 892

Nomenclature, Synonymy.—Notes on synonymy of cystidicolous fish nematode, BAYLIS, 112; Synonymy of *Paratylenchus macrophallus*, GOODEY, 555; Emendation of specific name of *Contracaecum anoyensis*, HSÜ 676; *Ascaris vitulorum* not identical with *A. lumbricoides*, SCHMID, 1200; Emendation of some preoccupied generic names, STRAND, 1304; Generic status of some avian Acanthocephala, VAN CLEAVE, 1413; Synonymy and variations of South American rodent Filariids, VAZ, 1424; *Rusguniella brevis* Maplest. syn. of *Aviculariella alcyona*, WEHR, 1472.

Classification.—Taxonomy of the Phanodermatinae (Enopliidae), ALLGÉN, 25; Classification of Metastrongylidae, BÖHM & GEBAUER, 151; Classification of free-living nematodes, FILIPJEV, 458; Systematic position of *Filaria clava*, as type of new genus, FOUNIKOFF, 470; Taxonomic notes on Gordians, HEINZE, 616; Classification of the Trichostrongylidae, NEVEU-LEMAIRE, 997; Classification of higher groups of Dorylaims, THORNE, 1370.

Bibliography.—Bibliography of onchocerciasis in Mexico and Guatemala, CABALLERO, 210; Index catalogue of medical and veterinary zoology, HASSALL & POTTER, 606.

Technique, Diagnostic Methods.—Technique of collecting, preserving and preparing marine free-living nematodes, ALLGÉN, 27; Egg albumin as mounting medium in study of living nematodes, KRULL, 787; Collecting technique for nematodes, SCHÖMMER, 1209; Method of cultivating hookworm larvae, MAPLESTONE, 898; Faecal examination for nematode eggs, ANON, 52; Microscopic diagnosis of nematodes in domestic animals, ANON, 53; Coproscopic examination for nematode eggs, AVINÉE, 75; Diagnosis of nematode parasites of man in United States of America, BROWN, 179; Diagnostic technique for nematodes, DORDAL, 399; Nematode coproscopy in the dog, FRICK, 489; Coproscopy for intestinal nematodes of man in Turkey, HAKKI, 581; Laboratory diagnosis of nematode infections, MAPLESTONE, 899; Worm counts in nematode gastritis of sheep and cattle, TAYLOR, 1352; Thick blood film technique for microfilariae, BENAVIDES, 131; Microfilaria culture

in vitro, BERGMAN, 138; Technique for microfilariæ, SCHEEFE, 1190; Dioptral trichinoscop, KOLBE, 770; New technique for Trichinella inspection, STEINBRÜCK, 1272; Intradermal reactions in trichiniasis, MATERNOWSKA, 914; Biological diagnosis of gastric habronemiasis in the horse, DESCAZEAUX & MOREL, 360; Serological reactions in onchocerciasis, HOOFF, 658; Proteins of *Haemonchus* in sera of infected sheep and goats, STUMBERG, 1309; Precipitin reactions in trichinosis, TRAWIŃSKI & MATERNOWSKA, 1389.

Obituary.—Geh. Med.-Ret. Prof. Dr. F. Fülleborn, M[ANSON]-B[AHR], P. H., 893.

STRUCTURE.

General morphology.—Morphology of human and canine nematodes, Hsü, 675; Morphology of *Cystoopsis acipenseris*, RAŠIN, 1129; Morphodynamics in Acanthocephala, MEYER, 936.

Cephalic structures.—Taxonomic value of cephalic structures in Nematodes, especially in Spiruroidea, CHITWOOD & WEHR, 277.

Alimentary system.—Constituents of intestinal cells in Ascarids, ARGESSEANU, 58; Histological structure of oesophagus of *Oesophagostomum dentatum*, CHITWOOD, 272; Oesophageal glands of Spiruroids and Filarioids, Hsü, 673; Oesophageal glands of Ascaroids, Hsü, 674; Oesophageal glands of *Proleptus* and *Thelazia*, Hsü & HOEPLI, 678; Mouth-spear of *Trichocephalus*, LI, 833.

Musculature.—Somatic musculature in nematodes, CHITWOOD & CHITWOOD, 274.

Genitalia.—Male spicular apparatus of *Enoplotaenus diplochma*, DITLEVSEN, 377.

Histology.—Chromosome-apparatus of *Ascaris suilla* and *A. vitulorum*, HOMEDES, 657; Determination of primitive ectoderm in *Ascaris megalocephala*, HSIÄ, 672.

Dermanian vessels.—Dermanian vessels in *Oncholaimus* spp., COBB, 295.

Larval morphology.—Comparative anatomy of *Microfilaria malayi* and *M. bancrofti*, FENG, 446.

Abnormal.—Anomalous *Ascaris lumbricoides* in pig, HARWOOD, 605.

PHYSIOLOGY.

Reactions to external agents.—Resistance of extra-xenous developmental stages of strongyles, ENIGK, 424; Resistance of nematodes to intestinal digestive juices, FREDERICQ, 476; Agglutination of granules in vas deferens of *Ascaris* by normal human serum, MOMMA, 955; Physiology of *Heterodera schachtii* in relation to control, NEBEL, 993; Physiological reactions of *Heterodera schachtii*, RADEMACHER, 1121; Effect of paradichlorobenzene on *Heterodera*, ROSEN, 1168; Effect of grass root excretions on *Heterodera schachtii*, TRIFFITT, 1393.

Physiological constitution.—Anti-coagulin in oesophagus of *Bunostomum trigonocephalum*, HOEPLI & FENG, 649; Experimental alteration of perienteral liquid in *Ascaris*, TEDESCHI, 1354.

Metabolism.—Heat production by *Ascaris lumbricoides* on sugar diet, HOFFMANN, 652; Feeding of Ascaroids and Oxyuroids, LI, 832; Excretion in the Rhabditidae, RAVEN & STEKHOVEN, 1131; Respiratory exchange in *Ascaris megalocephala*, TORYU, 1381; Nature of fatty acids in metabolism of *Ascaris*, WAECHTER, 1447.

Calcification.—Experimental calcification of *Trichinella*, BRAND, HOLTZ & VOGEL, 171; Effect of ergosterol and calcium lactate on calcification of *Trichina* cysts, WANTLAND, 1463.

Reviviscence.—Revival of quiescent *Anguillulina dipsaci*, COURTNEY & LATTA, 313.

Reconstitution.—Wound repair in *Theristus setosus*, ALLGÉN, 25.

REPRODUCTION AND DEVELOPMENT.

Ova and ovulation.—Infectivity period of *Ascaris* eggs, ALICATA, 15; Egg-production of *Nematodirus* and *Chabertia*, ANDREWS, 46; Hatching experiments with *Heterodera schachtii*, CARROLL & McMAHON, 231; Effect of temperature on eggs and larvae of

Strongyloides, CORDI & OTTO, 311; Resistance of eggs and larvae of *Stephanurus*, DE JESUS, 354, 355; Unfertilized *Ascaris* eggs, ESSÉD & VAN THIEL, 428; Effect of temperature on eggs and larvae of *Ancylostoma* and *Trichostrongylus*, FURUYAMA, 503; Influence of water and frost on developmental capability of *Sclerostome* eggs, GACKSTATTER, 506; Sensitivity of dividing and non-dividing ova of *Ascaris megalocephala* to radiation, MOTTRAM, 974; Method of incubating *Ascaris* eggs, STEWART, 1295; Effect of *Ascaris* tissue fluids on development of *Ascaris* eggs, TAKEMURA, 1338.

Spermatozoa.—Pulsation in sperms of *Angiostomum nigrovenosum*, GEHRKE, 518; Spermatocyte divisions in *Ascaris megalocephala*, STURDIVANT, 1316.

Fecundity.—Fecundity of parasitic female *Strongyloides*, FAUST, WELLS, ADAMS & BEACH, 440, 441.

Viviparity.—Viviparity in marine free-living nematodes, ALLGÉN, 28.

Cell lineage.—Cell inheritance in *Ascaris megalocephala*, BROHMER, 176.

Mating habits.—Mating habit of *Tetrameres* in Florida grackle, WEHR, 1473.

Life-history.—Life-history of *Ascaris capsularia*, REMOTTI, 1144; Life-history of *Leidynema appendiculatum* from cockroach, DOBROVOLNY & ACKERT, 383; Life history of *Metastrongylus salmi*, int. hosts earthworms, *Lumbricus terrestris* and *Helodrilus caliginosus*, ALICATA, 16; Life-history of lungworm of black-tail deer, *Odocoileus*, HOBMAIER & HOBMAIER, 634; Life history of *Ostertagia circumcincta*, THREEKELD, 1374; Life history of Spiruridae, ONO, 1037; Notes on larval life-history of *Acuaria anthuris*, CRAM, 319; Life history of fowl gizzard worm, *Cheilosporira hamulosa*, CUVILLIER, 337; Life history of *Cystoopsis acipenseris*, RAŠIN, 1129; Life history of *Gnathostoma spinigerum* in *Cyclops*, YOSHIDA, 1528; Life-history of *Onchocerca volvulus* in Belgian Congo, D'HOOGHE, 369; Life-history of *Philotetra fujimotoi*, FURUYAMA, 501, 502; Life history and infection routes of *Trichosomoides crassicauda*, TAKATORI, 1337; Life-history of *Gordius toluanus*

in Chironomidae and Carabidae, ŠVÁBENIK, 1324; Life-history of *Gigantorhynchus gigas*, ONO, 1036.

Larval forms.—Eggs and larvae of dog, cat and fox nematodes, HALL, 582; Differential diagnosis of the third stage larvae of Ancylostomidae from man, dog and cat, EISMA, 418; Differential diagnosis of larvae of *Ostertagia* and *Trichostrongylus* species in sheep, GORDON, 562; Avian microfilariæ, New York, MANWELL, 897.

Larval bionomics.—Larval nematodes in bat foetuses, HAMLETT, 593; Nematode larvae in lymphatic nodules of ox and buffalo, IWANOFF, 704; Effect of temperature on larvae of *Anguillulina dipsaci*, HASTINGS & NEWTON, 608; Effect of "burning" land on viability of larval *Stephanurus*, SPINDLER, 1253; Effect of copper sulphate on infective larvae of *Stephanurus* and *Oesophagostomum* spp., SPINDLER, 1255; Bionomics of larvae of *Stephanurus dentatus*, SPINDLER, 1257; Hydrotropism of larvae of *Ancylostoma caninum*, WAKESHIMA, 1454; Chemotropisms of mature larvae of *Ancylostoma caninum*, WAKESHIMA, 1455; Thigmotropism of mature larvae of *Ancylostoma caninum*, WAKESHIMA, 1453; Phototropism, thermotropism and barytropism of mature larvae of *Ancylostoma caninum*, WAKESHIMA, 1456; *Microfilaria bancrofti* found in ascitic fluid, FRÖES, 493; Action of blood corpuscles towards microfilariæ in culture, LAAS, 798; Periodicity of *Microfilaria bancrofti*, LANE, 805.

Intermediate hosts.—Larvae of cattle lung nematodes in molluscs, HOBMAIER, 636; Cockroaches as int. hosts of intestinal worms, COICOU, 301; Orthopteran int. hosts for *Microtetrameres helix*, CRAM, 320; New insect int. hosts of *Gongylonema pulchrum*, *Ascarops strongylina* and *Physicocephalus sexalatus*, ALICATA, 17; *Anopheles punctulatus* an experimental int. host for *Wuchereria*, BACKHOUSE, 84; Int. hosts of *Microfilaria malayi* in China, FENG, 447; Natural infection of *Culex pipiens pallens* with *Wuchereria bancrofti*, HU & CHANG, 680; Susceptibility of *Culex pipiens pallens* to infection with *Wuchereria bancrofti*, HU & YEN, 681; Intermediate host for *Macracanthorhynchus hirudinaceus*, Hungary, BALOGH, 92.

Transmission, Mode of infection.—Transmission of parasitic worms by insects, BRUG, 180; Dissemination of nematode infections by vegetables, MICHAËLOFF, 937; Nematode eggs in relation to fruit and vegetables, NISHIMURA, 1003; Transmission and infection of *Ascaris*, GIRGES, 531; Post-treatment re-infection with *Ascaris*, OTTO & CORT, 1046; Experimental infection of guinea pig with *Paraspidodera uncinata*, PORTER & OTTO, 1100; Infection route and localization of lung-worm larvae in molluscs, HOBMAIER & HOBMAIER, 635; Animal vectors of ancylostomiasis, SCADUTO, 1188; Significance of lung route of *Ancylostoma* infection, YOKOGAWA, 1527; Experimental infection of mice with *Nippostrongylus muris*, PORTER, 1100; Skin penetration by larvae of *Stephanurus dentatus*, SPINDLER, 1256; Transmission of *Syngamus trachea* by earthworms, CLAPHAM, 289; Transmission experiments with *Syngamus* in poultry and game birds, MORGAN & CLAPHAM, 938; Researches on canine *Spirocerca* infection, GIOVINE, 529; Filarial periodicity in *Dirofilaria immitis* after blood transfusion, HINMAN, FAUST & DE BAKRY, 629; Anopheline vectors of Filariae, LI, 830; Experimental infection of *Cyclops* with *Dracunculus medinensis*, HSÜ & WATT, 679; Prenatal trichinosis, AUGUSTINE, 71; Transmission of *Trichinella* in meat, KOEN, 767; Experimental *Trichinella* infection in an ape, MEIJER, 927; Experimental Trichiniasis investigations in Java, MEIJER, 928.

Development.—Developmental cycle of *Hexameris* parasitic in the ant, *Pheidole pallidula*, VANDEL, 1416; Development of root-knot nematode in root tissues, GODFREY & OLIVEIRA, 541; Influence of vitamin-deficient diet on development of *Toxocara canis*, WRIGHT, 1511; Development of *Heterakis gallinae* in fowls, BAKER, 89; Development of *Strongyloides* experimentally in heterogenous hosts, FAUST, 431; Development of *Synthetocaulus capillaris* in snails, HOBMAIER & HOBMAIER, 633; Metamorphosis of *Metastrongylus* larvae, HOBMAIER, 637; Development of preparasitic larvae of *Poteriostomum ratzii*, LUCKER, 854; Development of *Nippostrongylus muris* in rat, SCHWARTZ & ALICATA, 1215; Development of *Ancylostoma* in per-

cutaneous infection, SCHWARTZ & ALICATA, 1216; Development of *Gongylonema pulchrum* in the guinea pig, ALICATA, 18; Development of *Spirura rytipleurites* in the cat, STEFANSKI, 1270; Development of *Manisonella ozzardi* in sandfly, *Culicoides furens*, BUCKLEY, 191, 192; Development of *Trichinella* larvae in muscles of fowls, AUGUSTINE, 70; Intestinal Trichinae, BUGGE, 195; Development of adult Trichinae in fowl and rat embryos, MCCOY, 871, 872; Developmental metamorphoses of *Gordius tobusanus*, ŠVÁBENIK, 1324.

ETHOLOGY.

Bionomics.—Presumably marine nematodes in Lake Baikal fauna, BERG, 137; Ecology of lake nematodes, British Columbia, RAWSON, 1132; Biology of nematodes in thermal baths, Carinthia, STROCHAL, 1308; Nematodes in tropical plant ponds, THIENEMANN, 1362; Enumeration of soil nemas, Manitoba, MARCHANT, 902; Influence of domicile locality on the nematode parasitic fauna of the salmon, DOGIEL & PETRUSCHEWSKY, 388; Intraxenous migrations of nematodes, FREUND, 486; Significance of hosts for nematode parasites, FREUND, 487; Relation of parasitic nematodes to their hosts, WETZEL, 1483; Nematodes as commensals and parasites of insects, STAMMER, 1266; Nematodes in control of mosquito larvae, WALANDOUW, 1457; Biology and ecology of the nematode parasites of fishes, Lake Oneida, N. America, VAN CLEAVE & MUELLER, 1414; Ecology of nematode parasites of fishes, and amphibians, N. America, HOLL, 654; Seasonal incidence of gastro-intestinal nematodes of sheep in Australia, KAUZAL, 738; Effect of partial sanitation on nematode infections in man, OTTO & SPINDLER, 1047; Remarks on the marine species of *Tylenchus*, ALLGÉN, 30; Notes on *Paratylenchus macrophallus*, GOODEY, 555; Activation of quiescent bulb nematodes, *Anguillulina dipsaci*, HASTINGS & NEWTON, 609; Survival and revival of *Anguillulina dipsaci* from narcissus, SHERMAN, 1235; Biology of *Anguillulina dipsaci* on narcissus, STILLINGER, 1301; *Anguillulina cafeeae* in relation to cockchafer and mealy bug problem, MAYNE & SUBRAMANYAM, 918; Biology and control of

potato eelworm, *Heterodera schachtii*, CHEAL, 259; FUCHS, 496; GOFFART, 547; Estimation of degree of *Heterodera* infection in soil, GODFREY, 539; Parasitic relations of *Heterodera marioni* GOFFART, 548; Bionomics of *Heterodera radiculicola*, VAPPULA, 1420; Interrelations of *Strongyloides* to host tissue, FAUST, 433, 434; Ingestion of *Strongyloides* eggs and larvae by ciliates, SWEZEY & ATCHLEY, 1329; Bionomics of ascariasis, GIRGES, 531; Haematophagy in *Toxocara canis*, LIÈVRE, 838; Biology of *Ascaris capsularia*, REMOTTI, 1145; Bionomics and control of bursate nematode parasites of horses and sheep, PARNELL, 1061; Length of life of hookworms, KENDRICK, 745; Notes on *Wuchereria* infection, LANE, 803; Unusual site of Guinea worm, RIOU, 1157; Biology of *Diocotophyme renale*, JANICKI, 708, 709; Biology of *Trichinella spiralis*, HELLER, 619; Emergence of Gordians through the stigmata of *Dytiscus*, DOLLFUS, 390; Parasitism of *Gordius toluanus*, ŠVÁBENIK, 1324; An Echinorhynch and a Cestode as "mutually limiting" parasites of ciscoes [Pisces], CROSS, 324, 325.

Economics, Control, Prevention.—Nematode disease of strawberries, BROOKS, 177; Nematodes causing soreshin of cotton, CHRISTIE & ARNDT, 283; Nematode disease of tobacco plant, Philippine Islands, DAVID & ROLDAN, 344; Root disease of narcissi due to nematodes, HASTINGS & NEWTON, 607; Nematode pests of narcissus, HODSON, 639; Eelworms retarding wheat growth, HICKINBOTHAM, 626; Control of chrysanthemum eelworm, KEARNS & WALTON, 741; Potato eelworm problem, LEIPER & TRIFFITT, 820; Relation of nematodes to sugar cane rot, MUIR & HENDERSON, 978; *Tylenchus dipsaci* injurious to hyacinths, BYARS, 204; *Tylenchus tritici* attacking rye, oats, etc., BYARS, JOHNSON & LEUKEL, 206; *Tylenchulus semipenetrans*, the citrus root nematode, BYARS, 205; Control of chrysanthemum nematode, *Aphelenchoides ritzema-bosi*, EDWARDS, 416; *Aphelenchus fragariae* causing leaf disease in begonias, GILL, 525; Control of strawberry *Aphelenchus* by hot water treatment of runners, HODSON, 641; Relation of *Aphelenchus fragariae* to disease in strawberries, STANILAND & SWARBRICK, 1268; Nematode disease of

tobacco due to *Aphelenchus parietinus*, MONASTERO, 956; *Heterodera* affecting cereals, S. Australia, DAVIDSON, 345; Potato sickness due to eelworm, GOFFART, 549; *Heterodera* infection of beet, England, PETHERBRIDGE, 1078; Control of root nematode, *Heterodera schachtii*, RADEMACHER & SCHMIDT, 1122; Relation of *Heterodera schachtii* to pea sickness, WALTON, OGILVIE & MULLIGAN, 1461, 1462; *Strongyloides* infection in farrow, Formosa, MIYAMOTO, 953; Ascariasis in the horse, BLANCHET, 148; Aetiology and prophylaxis of *Ascaris* infection, GIRGES, 532; Prevention of *Ascaris* infection, critical review, LANE, 804; *Ascaris* infection and control, LEE, 815; Diagnosis and statistics of canine ascariasis, SCHULZ, 1214; Spread of *Ascaris* in dogs, SCHROEDER, 1225; Ancylostomiasis in Belgian Congo, ARNAUD, 59; Ancylostomiasis in Queensland, BEARUP, 118; Hookworm focus in Pesaro, Italy, DELLA CASA, 359; Prevention of ancylostomiasis, DEVOTO, 368; Prophylaxis of ancylostomiasis, GIUNTA, 537; Hookworm problem in Alabama, HAVENS & CASTLES, 610; Ancylostomiasis investigations in Egypt, KHALIL, 756; Ancylostomiasis in mines in Spain, MARTINEZ-GONZALEZ, 913; Trichostrongylosis in sheep, EDGAR, 413; Occurrence of Sclerostome infected horses, GOGOLKA, 551; Control of *Haemonchus*, HALL, 590; Lungworm disease in cattle, KENNEDY, 748; Control of lung nematodes in cattle in coastal regions, LÜHRS, 858; Inhibitory effect of urine on eggs of bursate nematodes, PARNELL, 1061; Prophylaxis of strongyloidosis of sheep and cattle, SKRIABINE & SCHULZ, 1244; Filariasis in East Indies, BONNE, 157; Filariasis, local and general, external and internal, CASTRONUOVO, 235; Filariasis investigations in Egypt, KHALIL, 756; Fatal Trichuris enzootic in dogs, DETROYAT, 361; Whipworm frequency in children, Stockholm, FREDBÄRJ, 475; Frequency of trichinosis in man, BADEL, 85; Trichinosis in China, RILEY & CHEN, 1155; Trichinella inspection in Linz, FISCHER, 461; Biological methods of *Trichinella* inspection in pigs, TRAWINSKI, 1388; Nematode parasites in fishes, seen at food inspections, LAUDEN, 811; "Summer-sores" in cattle due to nematodes, IWANOFF, 705; Intestinal nematodes in ovine veterinary practice,

CURTICE, 331; Importance of parasitic nematodes in sheep farming, ORR, FRASER & ROBERTSON, 1040; Helminthological problems in sheep, West Australia, ROSS, 1170; Effect of improved pasture on nematode infestation in sheep, ROSS, 1171; Field trials with sheep nematodes, ROSS & GRAHAM, 1173; Parasitic gastro-enteritis in sheep, STEWART & PIERCY, 1298; Epidemiology of helminthic gastritis in sheep, TAYLOR, 1351; Relation of overstocking to nematode infection in goats, MORGAN, 967; Nematode diseases of pigs, BECKETT, 127; Control of nematode infections in pigs, LENTZ, 822; Nematode epizootic in the horse, KINSLEY, 760; Habronemiasis in horses, MARTIN, 907; Nematode diseases of moose, FENSTERMACHER & JELLISON, 448; Nematode diseases of dog, HALL, PRICE & WRIGHT, 591; Nematode parasites of domestic animals, CAMERON, 224; War on livestock parasites, HALL, 583; Prophylaxis of nematode infections in animals, HALL, 588; Effect of overstocking on nematode infections, MORGAN & OLDHAM, 969; Nematodes of farm animals, PILLERS, 1083; Nematode diseases common to man and mammals, CAMERON, 223; Nematode infections in an Egyptian village, HEADLEE, 612; Effect of partial sanitation on intestinal parasitic incidence in man, OTTO & SPINDLER, 1247.

Parasitism, Effects on hosts.—Physiopathology of nematode infections, ESPOSITO, 427; Nematode eosinophilia in young horses, DOWGIALLO, 400; Effect of nematode infections on pancreas in fowls, HERMANN, 623; Oxalæmia in intestinal nematode infection, LOEPER & TONNET, 844; Effects of nematodes on metabolism of host, STEWART, 1296; *Heterodera radiculicola* as cause of adventitious buds in *Anemone silvestris*, SIENICKA, 1239; Giant galls due to root-knot nematodes, STEINER, BUHRER & RHOADS, 1283; Case of *Strongyloides* "creeping eruption" in Cochin China, PRADAL & SOUCHARD, 1103; Effect of *Strongyloides stercoralis* on gall bladder, VELHO-DA-SILVA & PONTES, 1428; Response of chickens to *Heterakis* infestation, CLAPHAM, 288; Penetration of *Ascaris* into pancreatic duct, GIORGACOPULO, 526; *Ascaris* infection of the pancreas, LANDFRIED, 802;

Ascaris lumbricoides in peritoneal cavity, KRISHNA RAO, 782; Basal metabolism in *Ancylostoma* infection, CAMPOS & CAMPOS, 225; Iron conservation in canine hookworm anaemia, CROSS, 326; Effect of hookworms on the blood in man, KOBAYASI & HARA, 765; Histological changes in intestine caused by *Ancylostoma caninum*, YAMADA & INOUE, 1520; Blood loss due to *Haemonchus contortus*, MARTIN & ROSS, 908; Case of laryngeal syngamus in the sheep, ROSE-ROSETTE, 1169; Effects of *Cystopsis acipenseris* on host, RAŠIN, 1129; Filariasis with hyper eosinophilia and cardiac weakness, MARCHAL & LEMOINE, 901; Skin manifestations in *Loa* infection, LOW, 852; Eosinophilia in dracontiasis, CHUKERBUTI, 284; Pathogenicity of *Trichocephalus trichiurus*, MITTELMAN, 952; Eosinophilia due to whipworms in dog, SCHNELLE, 1206; *Trichosoma recurvum* causing "creeping disease" in American crocodile, SOLGER, 1250; Effects of *Trichosomoides* on bladder of rat, WATANABE, 1467; Thermophilic and precipitin response in hogs in relation to *Trichinella* infection, BACHMAN & MOLINA, 81; Calcified *Trichinae* in bear's flesh, EILMANN, 417; Muscle-*Trichinae*, HEMMERT-HALSWICK, 621; Eosinophilia in trichinous pigs, MAASS, 864; Cutaneous manifestations in trichiniasis, MUSGER, 983.

Pathology, Relation to disease.—*Aphelenchoides olesistus* causing dwarfing of violets, STANILAND & GOODEY, 1267; *Aphelenchoides fragariae* attacking gooseberries and lilies, STEINER, 1278; Gall-formation by *Anguillulina graminis*, GOODEY, 556; *Anguillulina pratensis* causing disease in yams, STEINER & BUHRER, 1281; Eelworm leaf disease of chrysanthemum, ROSZYPAL, 1175; *Tylenchus dipsaci* and *Caconema radiculicola* causing disease in various plants, N. America, STEINER & BUHRER, 1279; *Paraphelenchus mau-pasi* attacking hyacinth bulbs, STEINER & BUHRER, 1280; Pea sickness due to *Heterodera schachtii*, OGILVIE & MULLIGAN, 1014; Nematodes found in diseased celeriac root from Sweden, STEINER, 1277; Nematode diseases of pigs, BECKETT, 127; Nematode diseases of dog, HALL, PRICE & WRIGHT, 591; Urinary parasitic lesions in the silver fox, SCHMID, 1201; Nematode gastro-enteritis in the coyote,

SCHÖNENBERGER, 1210; Nematodes as cause of meningitis in children, LAURENT, 812; Notes on helminthiasis, LÉO, 823; Nematode infections in relation to gynaecology, MAHLER, 887; Helminths as cause of appendicitis, NIÑO & DEFAZIO, 1002; Nematodes in brain in case of pellagra, TÖPPICH, 1380; Relation of nematodes to cancer of the lung in sheep, AYNAUD, PEYRON & FALCHETTI, 77; Relation of nematodes to tumour formation in horse and rat, BEATTI, 119; Relation of nematodes to tumour formation, HOEPLI, 643; Nematodes and cancer, LOMBARDI 846; Experimental relation of nematodes to malignant growths, VOS & HENNEMANN, 1445; Effect of *Strongyloides* infection on lungs in mice, BRUMPT, 181; Pathogenic factors in *Ascaris* infection, GIRGES, 533-535; *Ascaris* infection of liver in man, BABONNEIX, 80; *Ascaris* infection simulating peritonitis, BANERJEE, 96; Invasion of gall-bladder by *Ascaris* as cause of death in man, BAUMANN, 105; *Ascaris* causing intestinal obstruction, FERNANDEZ CARRI & CAPURRO, 450, GALLI, 507; Intestinal perforation by ascarids, JONQUIÈRES, 721, MAROTEL, 935; *Cyathostoma bronchialis* and *Amidostomum anseris* causing epizootic in wild geese, CHRISTENSON, 281; Fatal anaemia caused by strongyles and cylicostomes, CAMBAN, 220; Cachexia in cattle due to *Oesophagostomum*, CHALTEIN, 253; Pathogenic action of *Oesophagostomum* spp., WETZEL, 1488; Relation of helminthic aneurism to intestinal colic in horse, OLT, 1034; Intestinal nematode nodules in cattle, LIEBSCH, 835; Larval strongyles as cause of colic in horses, PILLERS, 1085; Pathogenic importance of *Chabertia ovina*, ROSS & KAUZAL, 1104; *Ollulanus tricuspidis* causing chronic gastritis in pigs, KOTLAN & MÓCSY, 773; Creeping eruption due to *Ancylostoma braziliense*, NATAL, CAWSTON, 240; Splenic myeloid metaplasia in ancylostomiasis, CRUZ, 328; Pathogenesis of hookworm anaemia, CRUZ, 329; Effects of hookworms on heart and bloodvessels, DE LANGEN, 357; Origin of anaemia in ancylostomiasis, DE LANGEN, 358; Fatal infection of rabbit with *Trichostrongylus calcaratus*, SARLES, 1184; New Metastrongylid as cause of crural paralysis in the cat, WOLFFHÜGEL, 1504; Histopathology of equine helminthis granuloma, DATTA, 342;

Gnathostoma infection simulating mastoiditis, DATTA & MAPLESTONE, 343; New species of *Spiroptera* [*Gongylonema*] as cause of malignant tumours in rats, FIBIGER, 457; *Spiroptera* lesions in aorta of dog, LEINATI, 817; *Habronema megastoma* as cause of splenic disease in the horse, SSOLONITZIN, 1263; Effect of *Filaria aequalis* infection on histomechanics of ovarian follicles, BECHER, 126; Streptococcal septicaemia in filarial orchitis, DE & CHATTERJEE, 351; Cases of filariasis, Tanganyika, FISCHER, 462; Pathological anatomy of *Onchocerca volvulus* nodules, FISCHER, 463; Rare case of *Filaria bancrofti* infection, FROES, 494; Pathology of lymphangi endothelioma of the testes in human filariasis, KITAMURA & TAKADA, 762; *Wuchereria bancrofti* infection with unusual history, POINDESTER & JONES, 1093; *Filaria flexuosa* nodules in subcutaneous tissue of deer, STROH, 1307; Lesions caused by *Eustrongylus* in the dog, PAVÉ & ROSSI, 1066; *Trichuris trichiura* causing enteritis, FERNANDEZ, 451, GEREMIA 521, LABBÉ, 799; Virulence of *Trichinella spiralis*, BACHMAN & OLIVER, 82; Relation of *Trichinella* to malignant tumours in rats, DOERR & MENZI, 386; Demonstration of *Trichinella* in human brain, PUND & MOSTELLER, 1119; Nematode parasites of animals in relation to human pathology, POPPE, 1099.

Immunity, resistance, susceptibility to infection.—Elworm-resistant plant selection, KOESLAG, 768, 769; Experimental investigation of susceptibility and resistance of various Indian plants to infection with *Heterodera marioni*, KRISHNA AYYAR, 781; Problem of root-knot nematode resistant plant strains, WÄLSTEDT, 1459; Resistance and susceptibility of fowls to infection with *Ascaridia lineata*, ACKERT ET AL., 3, 4; Dietary deficiency in relation to infection of chickens with *Heterakis*, CLAPHAM, 290; Relation of vitamin deficiency to ascariasis in pigs, CLAPHAM, 291; Susceptibility of laboratory animals to lung infection with *Ascaris* spp., GRAHAM, 566; Excessive infection with ascarids in man, DIMITRIOU-MAMANT & CIORAN, 374; Relation of *Nippostrongylus* strains to breeds of rat, GRAHAM & PORTER, 567; Resistance of rats to superinfection with *Nippostrongylus*, SPINDLER, 1259; Effect of ferrous

sulphate on resistance of pigs to *Oesophagostomum*, SPINDLER, 1258; Development of resistance in sheep to infection with *Dictyocaulus filaria*, KAUZAL, 740; Immunity of lambs to Trichostrongylid gastritis, TAYLOR, 1348; Influence of nutrition on susceptibility of sheep to *Haemonchus* infection, FRASER & ROBERTSON, 474; Nutrition affecting *Haemonchus* infection, ROSS & GORDON, 1172; Factors in parasitic gastritis of sheep, TAYLOR, 1350; Vitamin-deficiency in relation to *Trichinella* infection in rats, MCCOY, 870; Rôle of reticulo-endothelial system in trichinellosis, RYBIASKY, 1179; Haematopoiesis and the origin of eosinophilia in nematode infections, ALEXEIEFF, 14; Failure of vita-calcium to increase resistance to nematode infection, BOER, 150; Passive transfer of immunity to nematode infection, CHANDLER, 255, 256; Cellular basis of immunity reactions in parasitic infections, TALLAFERRO, 1340.

OCCURRENCE, HOSTS.

Plantae.—List of host plants of *Heterodera marioni*, BUHRER, COOPER & STEINER, 197; *Heterodera schachtii* infecting the soya bean, FUJITA & MIURA, 497; Nematodes of turnips, GOFFART, 545; New *Heterodera* parasite of wheat, Canada, THORNE, 1368; *Caconema* [*Heterodera*] *radicicola* on *Lobelia erinus*, BOSHER & NEWTON, 163; Eelworm infection of *Hydrangea*, ARTICLE & DESHUSSES, 62; Eelworms in *Primula*, CAYLEY, 242; New plant nemas, North America, THORNE, 1371; *Tylenchus* leaf galls on *Andropogon*, VENKATARAMAN, 1429; New gall-forming *Anguillulina* on Indian grass, GOODEY, 557; *Anguillulina dipsaci* on bulbous irises, HOBSON, 640; New host plants of *Aphelenchus ritzema-bosi* and *A. olesistus*, PAPE, 1060; *Aphelenchus* infection of chrysanthemum, STAEHELIN, 1264; *Aphelenchus helophilus* Man in *Lilium sargentiae*, THORNE, 1369; *Aphelenchoides fragariae* infesting begonias, U.S.A., COURTNEY & REYNOLDS, 314; New species of *Aphelenchoides* in sugar cane, STEINER, 1273; New *Aphelenchoides* sp. on Louisiana pine, STEINER & BUHRER, 1282; Nematode parasites of cinnamon vine tubers, STEINER, 1274; New genus of Cephalobid inhabiting sclerotia of a

fungus, STEINER, 1276; *Rhabditis teres* on cultivated mushrooms, AUSTIN, 73.

Vermes.—New nematode parasite in the intestine of an Amphistome parasite of a turtle, TRAVASSOS, 1387; New Drilonematid in gonad of earthworm, North America, CHITWOOD & LUCKER, 275.

Mollusca.—New nematode pulmonary parasite of snail, North America, with list of nematode parasites of snails, CHITWOOD & CHITWOOD, 273; New Diplogasterid variety from muscles of snail, Maryland, CHITWOOD & MCINTOSH, 276.

Crustacea.—New *Rhabdochona* sp. from a river crustacean, India, PEARSE, 1068.

Arachnida.—*Ichtyocephalus artigasi*, new nematode in Myriapods, Brazil, ALMEIDA, 36.

Insecta.—New Thelastomatid genus in insects, CHRISTIE, 282; Nematode parasites of *Periplaneta americana*, DOBROVOLNY, 382; New *Neoaplectana* sp. in a caterpillar, Russia, FILIPJEV, 459; Nematode sp. in cave beetle, *Adelops hirtus*, N. America, GIOVANNOTTI, 528; *Neoaplectana* sp. in *Conorhynchus mendicus*, TRAVASSOS, 1382; Gordiid parasites of Orthoptera, Tonkin, HOUEMER, 664.

Pisces.—Nematodes from fishes, Late Sevan, Armenia, DINNIK, 375; Nemathelminth parasites of fishes, Bay of Neva, DOGIEL & PETRUSCHESKY, 387; Three new nematodes from fishes, Canada, SMEDLEY, 1247; New genus from eel, England, BAYLIS, 107; New nematode parasite of eel, N. America, MUELLER, 975; New *Ascarophis* in deep sea fish, Porto Rico, CHITWOOD, 270; *Philometra fujimotoi* in fish, Korea, FURUYAMA, 504, 505; *Ascaris capsularia* in *Merluccius*, RIZZO, 1159; New *Cystidicola* in *Barbus*, Central Africa, RODHAIN & VUYLSTEKE, 1164; New genera and species of Acanthocephala from fishes, N. America, CHANDLER, 254; Acanthocephala from fishes, Lake Sevan, Armenia, DINNIK, 375; New *Rhadinorhynchus* from *Scomber pelamys*, Indian ocean, HEINZE, 618.

Amphibia.—*Nematodes* from Mexican amphibians, CABALLERO, 212; *Ampli-caecum Brumpti* in frogs, France, HARANT & CAZAL, 599; Nematode parasites of frogs, Schleswig, PAUL, 1065; New *Strongyloides* sp. in *Elosia*, Brazil, TRAVASSOS, 1383.

Reptilia.—*Multicaecum agile* (Wedl) causing stomach tumours in *Crocodilus palustris*, India, BHALERAU, 145; New Oxyurid in Porto Rican lizard, CHITWOOD, 270; New *Capillaria* spp. in Brazilian snakes, FREITAS & LENT, 481, 482; New *Kalicephalus* from *Coluber constrictor*, Tennessee, HARWOOD, 604; *Kalicephalus* spp. from snakes, China, HSÜ, 677; New Heterakid from *Corucia* (Scincidae), KREIS, 779; Nematodes from reptiles, Malaya, ROBINSON, 1162; *Ascaris holoptera* in *Testudo graeca*, STETTER, 1294; Ascarid parasites of South American crocodiles, TRAVASSOS, 1385; Nematode parasites of reptiles, Utah, WOODBURY, 1505.

Aves.—*Thelazia depressa* in eye of vulture, *Sarcogyps*, Siam, BAYLIS, 106; New eyeworm in *Caprimulgus*, Russia, SKRJABIN, 1245; New *Capillaria* sp. in Californian quail, Queensland, BAYLIS, 111; New *Capillaria* sp. in *Tinamus solitarius*, Brazil, FREITAS, 479; New *Capillaria* spp. in Brazilian birds, TEIXEIRA DE FREITAS, 1356; Two new Trichostrongyline genera in *Tinamus solitarius*, Brazil, LENT & FREITAS, 821; *Diplotrriaena tricusps* in Indian mynah bird, MAZHAR, 919; New *Diplotrriaena* spp. from Indian mynah, KARVE, 734; New *Diplotrriaena* from W. Indian woodpecker, WEHR, 1470; *Syngamus trachea* in *Heteropsar albicapillus*, McLENNAN, 882; New *Eustrongylides* from a Formosan heron, SUGIMOTO, 1317; Filariid in peritoneal cavity of a bird, *Philander*, French Guiana, TISSEUIL, 1379; *Tetracheilonema quadrilabiatum* in Tinamiform birds, S. America, VAZ, 1423; New *Ornithostrongylus* in West Indian bird, VIGUERAS, 1435; *Anas fulgula* a new host of *Avioserpens denticulophasma*, WEHR, 1471; Nematode parasites of magpie fledglings, YAMAGUCHI, 1521; *Capillaria* spp. in domestic and game birds, CRAM, 321; *Trichostrongylus* in domestic and game birds, N. America, CRAM & CUVILLIER, 322; *Trichostrongylus* spp. of birds, CRAM & WEHR, 323; Nematode parasites of birds,

Dutch East Indies, KRIJGSMAN, 780; *Syngamus* in birds, LERCHE, 828; List of avian nematodes met with at Hamburg, PETERS, 1077; New Filarioids from West Indies, VIGUERAS, 1436; New avian Spirurids, WEHR, 1474; New *Dracunculus* parasite of birds, N. America, WEHR & CHITWOOD, 1475; Nematode parasites of poultry, ADAMS & GEISER, 8, MINIST. AGRIC. LONDON 50, BLOCH & BIRCHER, 149, BUCKLEY, BUNYEA & CRAM, 193, MÖNNIG, 958, TAYLOR, 1345, 1346; Gapeworms of poultry, MINIST. AGRIC. LONDON 51; *Heterakis* infection in fowls, CLAUSSEN, 294; *Capillaria* infection of fowls, NELSON, 994; New *Capillaria* sp. in domestic hen, Brazil, FREITAS & ALMEIDA, 480; *Acuaria* infections of domesticated birds, HERMSDORFF, 624; *Strongyloides papillosus* in a cockerel, NOTO-SOEDIRO, 1006; Filarial parasites of poultry, Formosa, SUGIMOTO, 1321; *Acanthocephala* in birds, Provence, TIMON-DAVID, 1377; New bird host of *Plagiorhynchus formosus*, CUVILLIER, 338; New *Centrorhynchus* sp. from Himalayan bird, DATTA, 341.

Mammalia.—Two *Dipetalonema* spp. from Queensland marsupials, BAYLIS, 110; New *Dracunculus* sp. from S. American opossum, TRAVASSOS, 1386; Two new nematodes in opossum, Brazil, VAZ & PEREIRA, 1425; New Nematode genus from an Edentate, Argentina, KHALIL & VOGELSANG, 757; New Spirurid, *Crassicauda giliakiana*, in kidney of beluga, SKRJABIN & ANDREWA, 1246; *Hoplodontophorus flagellum* in *Heterohyrax* (*Procavia*) *Antineae*, Sahara, DOLLFUS & MONOD, 395; Nematode parasites of the Bactrian camel, ENIGK, 422; MÜLLER, 980; New whipworm from the Dama gazelle, GEBAUER, 514; New lungworm in black tail deer, *Odocoileus*, HOBMAIER & HOBMAIER, 634; New Filariid in antelopes, Transvaal, MÖNNIG, 957; New Oxyurid of mountain goat and caribou, Canada, SWALES, 1325; Nematode parasites of the Moose, North America, WALLACE, 1458; Nematode parasites of horses, CAMERON, 221, HORNUNG, 662, TEETER, 1355, THORP & GRAHAM, 1372, THORP, JAMES & GRAHAM, 1373; *Ascaris equorum* in colts, SHOLL, 1238, UNDERWOOD & WEHR, 1407; Parasitic nematodes of pigs, HALL, 584, MELLO,

929, MELLO & MELLO, 930; Nematode parasites of goats, England, OLDHAM & MORGAN, 1033; Intestinal nematodes in ovine veterinary practice, CURTICE, 331; Common nematodes of sheep and goats in India, BHALERAO, 142; Stomach worms of sheep and goats, HARDY & SCHMIDT, 600; *Syngamus nasicola* Linst. in sheep, W. Indies, BUCKLEY, 189; *Cooperia curticei* in sheep, New South Wales, McGRATH, 876; Microfilaria in blood of cattle, BELL, 130; Stephanofilaria in cattle, RUBBERMAN & KRANEVELD, 138, CHITWOOD, 271, DIKMANS, 371, 372; Lung nematodes of cattle, Germany, WERNERY, 1479; Common cattle nematodes, India, BHALERAO, 143; Records of nematode parasites in ungulates, DIKMANS, 373; Nematodes from rodents, Tanganyika, BAYLIS, 108; Distribution and intensity of nematode infections in the hare, BUHR, 196; *Necator americanus* in a South American rodent (*Coendu*), ALMEIDA 37; *Capillaria hepatica* in Canadian beaver, CHITWOOD, 269; Nematode parasites of the nutria, ENIGK, 423; *Physaloptera* sp. in *Sciurus palmarum*, MIRZA, 950; Nematode parasites of guinea pig, FREUND, 485; New Filariine genus in Argentine *Cavia* spp., VAZ, 1424; New *Heligmostrongylus* in Cuban rodent, *Capromys pilorides*, VIGUERAS, 1437; Nematodes in mice, Hebrides, ELTON, 421; Nematode parasites of rats, Toulon, MARCANDIER & PIROT, 900; Nematode parasites of rats, Warsaw, OBITZ, 1009; New Oxyurid in rat, Brazil, VAZ & PEREIRA, 1426; New Filariid in rats, VOGEL & GABALDON, 1442; Intestinal nematodes in the muskrat, CLAUSSEN, 293; New Trichostrongylid genus in agouti, Brazil, FREITAS & LENT, 483; *Trichostrongylus orientalis* in porcupine, SCHULZ, 1213; Nematodes from seals, Greenland, HEINZE, 617; Nematodes of ranch foxes, HANSON, 596; Hookworms in foxes, LAW, 813; New *Chlamydonema* sp. in wild cat, India, MIRZA, 951; New *Habronema* from a wild cat, Siberia, TSCHERNIKOWA, 1394; Nematodes of mink, HANSON, 587; *Eustrongylus* in the kidney of Nerz, HEIDEGGER, 615; *Ascaris lumbricoides* in a bear, Japan, INUKAI & YAMASHITA, 695; Pulmonary nematodes in the badger, *Meles*, SCHLEGEL, 1195; New genus for lung nematode of

the badger, SCHLEGEL, 1196; New kidney worm in sable, *Martes zibellina*, Saghalien, SHIMAKURA, 1236; SHIMAKURA & ODAJIMA, 1237; Nematode parasites of domestic carnivores, CAMERON, 222; Nematode parasites of dogs and cats, south-eastern Russia, LANDA, 801; Nematode parasites of dogs in China, CHEN, 261; Nematode parasites of dog, HALL, 585, 586; *Dracunculus medinensis* in a dog, CHIKMUTH, 267; Cardiac filariasis in the dog, COLLET, 303, HAYES, 611, MCGINNIS, 875; Cardio-pulmonary strongylosis in the dog, CUILLÉ & DARRASEN, 330; Nematode parasites of cats, China, CHEN, 263; Lungworm of cat, BAUDET, 104; New lung nematode in domestic cat, Armenia, DAVTJAN, 348; New *Syngamus* in domestic cat, Trinidad, with larval development, BUCKLEY, 190; New *Syngamus* sp. from middle ear of cat, China, FAUST & TANG, 439; *Spirura rhytipleritis*, a little-known nematode of the cat, STEFANSKI, 1271; Nematodes of furbearing animals, FREUND, 484, HEIDEGGER, 614, HULPHERS, 683; *Capillaria* spp. parasitic in bats, FREITAS, 478; New rhabdite nematode from North American bats, MCINTOSH & CHITWOOD, 879; New genus of Trichostrongylids in bats, SKARBILOVITCH, 1243; New *Litomosoides* sp. from bat, Brazil, SANDGROUND, 1183; New Filarioid from Chiroptera, West Indies, VIGUERAS, 1436; New Gongylonema in monkey, *Saimiris sciureus*, Brazil, ARTIGAS, 63, 64; New *Rictularia* affection in apes, LUBIMOV, 853; Nematodes of chimpanzee, SCHEIDEGGER & KREIS, 1194; Nematode parasites of domestic animals, BOUGHTON, 167, CAMERON, 224; Nematode parasites of mammals, Dutch East Indies, KRIJGSMAN, 780; Nematodes of mammals, New York Zoo, McCURE, 869; *Ascaris* infection in domestic animals, METZ, 935; Nematode parasites of mammals, north-east Canada, PARNELL, 1062; Nematode parasites of domestic animals, Yugoslavia, BABIC, 79; Nematode parasites of farm animals, PILLERS, 1083; Illustrations of some nematode parasites of mammals, VOGEL, 1443; *Acanthocephala* from seals, Greenland, HEINZE, 617; *Gigantorhynchus echinodiscus* in the anteater (*Tamandua*), Panama, DUNN, 407.

Homo.—Oxyurids in children, LEVINE, 829; Two additional human cases of Gnathostome infection in Siam, PROMMAS & DAENGSVANG, 1115; Two cases of *Wuchereria bancrofti* infection, HULSE, 684; *Onchocerca* infection in man, Panama, TREJO, 1392; Guinea worm in a Central African negro in France, DUPONT, 408; Frequency of *Trichinella* infection in man, MESSNER, 934; Nematode infection rates of prisoners, Mauritius, ADAMS & WEBB, 7; Nematode parasites of children, N. America, ALICATA, 19, CANNING, 227, Tanganyika, COLOMBO, 305; Nematode parasites of Manchurians, HIYEDA & SUZUKI, 631; Prevalence of nematode parasites in man, Dutch East Indies, KAISER, 731; Intestinal nematodes of man, northern Africa, BASILE, 101; Intestinal nematodes in French negro soldiers, PIROT & LE MOULT, 1092; Nematode parasites of man, Madagascar, POISSON, 1094; Intestinal nematodes of man in Schistosoma areas of Porto Rico, FAUST, HOFFMAN, JONES & JANER, 436; Intestinal nematodes in negro soldiers, Toulon, PIROT & LE MOULT, 1091; Occurrence of Gordians in man and invertebrates, SCIACCHITANO, 1222.

Vertebrata.—Nematodes from vertebrates, Brazil, PEREIRA, 1076.

ETIOLOGY.

Phylogeny.—Relationships of free-living and parasitic nematodes, FILIPJEV, 458.

Variation.—Variation in the cysts, eggs and larvae of potato, oats and beet strains of *Heterodera schachtii* as a means of identification, GOFFART, 546; Variations in *Anguillulina dipsaci*, STEINER, 1275.

FAUNAS, DISTRIBUTION.

Europe.—Free-living marine nematodes, Sweden, ALLGÉN, 23, 29, 32-35; List of plant parasitic nematodes in Denmark, ANON, 54; Intestinal nematodes in man, Spain, BOTIJA, 165; *Stephanurus dentatus* in Spain, GARCIA, 511; Nematelminth fauna of Germany, REMANE, 1141; Nematodes in the benthon microfauna of Kiel Bay, REMANE, 1142; Free living nematode

fauna of Hohen Tauern, BREHM, 173; Nematode parasites of frogs, Schleswig, PAUL, 1065; Nematode incidence in man, Kurischer Hafl, Germany, WIGAND & STEINER, 1490; Nematodes in the Windmere littoral, MOON, 984; Nematodes of Hitchin district, PALMER, 1057; Potato eelworm in Ireland, CARROLL, 230; Ancylostomiasis in a child in England, CAUTLEY, 236; Nematode parasites of goats, England, OLDHAM & MORGAN, 1033; Marine free-living nematodes, Belgian coast, CONINCK & STEKHOVEN, 307; Nematodes in Hungarian springs, GEBHARDT, 516; Distribution of trichinellosis in Czechoslovakia, HÖKL, KLAUZ & CERVINKA, 653; Free-living nematodes, Roumania, IONESCU, 696; *Trichina* in pigs, Poland, KUSIO, 797; Nematode parasites of wild rats in Warsaw district, OBITZ, 1009; Nematode parasites of dogs and cats, South-eastern Russia, LANDA, 801; Nematodes in fowls, Holland, MÖNNIG, 958; Ancylostomiasis in Italy, BRUNI, 186; Pulmonary strongylosis in sheep, Italy, CIANCIOTTA, 285; Nematode infections in rural Romagna, GIOVANARDI & MONDOLFO, 527; Gordians found in the National Park, Piedmont, SCIACCHITANO, 1220; New Gordians, Italy, SCIACCHITANO, 1222.

Asia.—*Trichostrongylus* infection of man in Armenia, KALANTARIAN, 732; Hookworm disease in Palestine, SCOTT, AYOUB & REITLER, 1227; Nematode parasites of dogs and cats, Palestine, WITENBERG, 1500; Nematode parasites of man, Syria and Lebanon, YENIKOMSHIAN & BERBERIAN, 1526; Free-living nematodes of the Pamir Plateau, REINIG, 1139; Filariasis in Gwalior, India, KORKE, 772; Common cattle nematodes in India, BHALERAU, 143; Nematodes of ox and fox, India, MAZHAR, 919; Filariasis survey of Southern Ceylon, SWEET & DIRCKZE, 1328; Common human nematode parasites in West China, DU, 402; Oxyuroidea from China, LI, 831; Spiruroid nematode parasites of vertebrates, North China, LI, 834; *Haemonchus similis* in calves, Korea, ISSHIKI, 703; Marine free-living nematodes of sub-family Oncholaiminae, Sunda Islands, KREIS, 777; Trichinosis in Dutch East Indies, BUBBERMAN, 187; Prevalence of nematodes in man, Dutch East Indies,

KAISER, 731; Trichuriasis in Malaya, PALLISTER, 1056; Nematodes of mammals and fowls, Dutch East Indies, SMIT, 1249; Ancylostoma infection in students, Philippine Is., TUBANGUI & FRANCISCO 1400; Three new Gordians from Fukien, China, TANG, 1342.

Africa.—Intestinal nematode parasites of man in North Africa, BASILE, 101; Occurrence of *Onchocerca volvulus* in Sudan and its association with blindness, CRUICKSHANK, 327; Identification list of nematodes, VETERINARY DEPT., UGANDA, 49; Nematode parasites of children in Tanganyika, COLOMBO, 305; Nematode parasites of man, Belgian Congo, FISHER, 465; Nematode parasites of man, Madagascar, POISSON, 1094; Nematode parasites of pigs, Madagascar, POISSON, 1095; Ancylostomiasis in Somaliland, BARTOLUCCI, 100, BASILE, 102, MIRRA, 949; New Gordian, Somaliland, SCIACCHITANO, 1222.

North America.—*Heterodera marioni* in British Columbia, BOSHER, 162; Free-living nematodes from Maine, COBB & STEINER, 296; Brackish water nematodes, Florida, PEARSE, 1071; *Aphelenchoides fragariae* in Massachusetts, BOYD & CHRISTIE, 169; *Tylenchus dipsaci* in North-west United States, GODFREY & MCKAY, 540; Nematode parasites of mammals, North-east Canada, PARNELL, 1062; Filariasis in dog, N. America, FISHER, 466; Prevalence of *Trichinella* infection in man, N. America, QUEEN, 1120, RILEY & SCHEIFLEY, 1156; American records of *Diectophyme* in dog, UNDERWOOD & WRIGHT, 1408; Occurrence of *Trichostrongylus longispicularis* in cattle in United States, America, ANDREWS, 45; *Trichostrongylus* in New York State, BAKER, 90; Incidence and intensity of hookworm infection in Mississippi, KELLER, LEATHERS & RICKS, 742; Incidence and intensity of hookworm infection in Florida, KERR, 751; Distribution of human ascariasis in United States, OTTO & CORT, 1045; *Ascaris lumbricoides* infection in children in United States, ROEHM, 1165; Incidence of nematodes and acanthocephalans in swine in southern United States, SPINDLER, 1254.

West Indies.—New *Parachordodes*, Haiti, SCIACCHITANO, 1222; Gordians

in Cuba, VIGUERAS, 1440; Survey of intestinal parasites of man in schistosomiasis areas of Porto Rico, FAUST, HOFFMAN, JONES & JANER, 436.

South America.—Strongyloids of cattle and sheep in Uruguay, CALZADA, 219; Ancylostomiasis in Buenos Aires, CASTEX & GREENWAY, 232; *Setaria equina* in horses, Argentine, MAZZA & ROMANA, 920; Nemathelminthes of vertebrates, Brazil, PEREIRA, 1076; Nematode parasites of farm animals, Bogota, REYES, 1149.

Australia.—Spirurid nematodes from Queensland, BAYLIS, 113; *Trichostrongylus axei* in horse, Australia, GORDON, 560; Lungworm of cat in Australia, GORDON, 561; *Chabertia ovina* in sheep, Australia, GORDON & GRAHAM, 563; *Trichostrongylus* infection of lambs in Victoria, KAUZAL, 739; Nematode parasites of domesticated animals, Queensland, ROBERTS, 1160.

New Zealand.—Nematodes of sheep, New Zealand, TETLEY, 1358.

North Sea and Baltic Ocean.—General account of Nematodes of the North Sea and Baltic, WÜLKER & STEKHOVEN, 1514; Nematomorpha of North Sea and Baltic regions, STEKHOVEN, 1287.

Bipolar.—Bipolar occurrence of marine free-living nematodes, ALLGÉN, 24.

General.—Distribution of *Syngamus trachea* (cosmopolitan) and *S. hippopotami* (Africa), GHESQUIÈRE, 522; Geographical distribution of ascariasis in man, GIRGES, 530.

SYSTEMATIC.

NEMATODA.

Chromadoroidea.

CHROMADORIDAE.

Allgéniella gen. nom. nn. pro *Odontonema* Filipjev 1930 nec Weber 1913, STRAND Folia Zool. Riga 6 1934 p. 271.

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CYATHOLAIMIDAE.

Cyatholaimus dittevseni Stekh. & Adam and *papilliferus* Allg. syns. of *demani* Filipjev, p. 26, *punctatus* Bast. pp. 59-61 figs. 30-34, *demani* Fil. p. 62, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

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Prodesmodora circulata (Micoletzky) Sweden, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 pp. 112-113 fig. 1.

DESMODORIDAE.

Desmodora serpentulus Man (syn. *D. leucocephala* Schulz) Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 64 figs. 38-39.

Metachromadora vivipara de Man, South Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934 p. 60 fig. 8.

Paraegialolaimus gen. n. Desmodoridae, *flicaudatus* sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 pp. 101-102 fig. 4.

MICROLAIMIDAE.

Micro-laimidae fam. n., type *Micro-laimus* de Man pp. 86-88, transf. from Monhysteroidea to Chromadoroidea p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Micro-laimus, key to species pp. 86-88, *honestus* Man pp. 88-90 figs. 73-76, *marinus* (Schulz) pp. 90-92 figs. 77-81, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

COMESOMATIDAE.

Comesomidae transferred from Monhysteroidea to Chromadoroidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Dorylaimopsis punctatus Dittl., Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 pp. 103-104 fig. 5.

HALAPHANOLAIMIDAE.

Halaphanolaimidae transf. from Chromadoroidea to Araeolaimoidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Monhysteroidea.

Comesomidae transferred to Chromadoroidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Diplopeltidae transf. from Monhysteroidea to Araeolaimoidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Micro-laimidae fam. n. type *Micro-laimus* de Man, transferred to Chromadoroidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Monhysteroidea ord. n., CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

MONHYSTERIDAE.

Monhyssera paramonovi sp. nom. n. pro *M. ampullocauda* Allgén nec Paramonov, ALLGÉN Capita Zool. 's Gravenhage 2 viii 1929 p. 49 footnote.—*M. ambigua* Bast. and *ambiguoides* Bütsch. syns. of *disjuncta* Bast., *heteroparva* Micol. syn. of *parva* Bast., *demani* Stekhoven syn. of *Theristus tenuispiculum* Dittl., p. 27, *tenuispiculum* Dittl. referred to *Theristus* p. 28, *microphthalma* Man pp. 139-141 figs. 141-144, *disjuncta* Bast. pp. 141-143 figs. 145-150, *parva* (Bast.) pp. 144-146 figs. 151-

160, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.—*M. filiformis* Bast. var. *Strandi* var. n. Sweden, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 116 fig. 3.

Parasphaerolaimus gen. n. type *Sphaerolaimus paradoxus* sp. n., DITLEVSEN Vid. Medd. Dansk. Foren. København 70 1919 vii no. 10 pp. 174-177 pl. vii.

Steineria Micoletzky raised to generic rank, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Theristus velox of Steiner and of Stekhoven & Adam = *T. acer* Bast. p. 27, *setosus* (Bütschli) pp. 126-128 figs., 116-120, *parasetosus* sp. n. p. 128 figs. 121, 122, *acrilabiatus* sp. n. p. 130 figs. 123-126, *normandicus* Man pp. 131-133 figs. 127-129, *acer* Bast. pp. 133-134 figs. 130, 131, *calceolatus* sp. n. pp. 134-136 figs. 132-136, *tenuispiculum* (Dittl.) pp. 137-139 figs. 137-140, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.—*T. strandi* sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 105 fig. 8.

LINHOMOEIDAE.

Eleutherolaimus stenosoma (Man), Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 146.

Eulinhomoeus lineatus (Dittl.) Swedish coast, ALLGÉN Folia zool. 6 1934 p. 68 fig. 10.—*E. paralongicaudatus* sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 pp. 106-107 fig. 9.

Paralinhomoeus viscosus Allg. p. 69 fig. 11, *strandii-brevicaudatus* sp. n. p. 70 fig. 12, Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934.—*P. primitivus* Allg., Öresund, ALLGÉN Folia zool. Riga 7 1934 p. 107 fig. 10.

Sabatieria quadripapillata Fil., Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 84-86 figs. 70-72.

Tubolaimella gen. n. Linhomoeidae, *tenuicaudata* p. 108 fig. 11, *zostericola* pp. 108-109 fig. 12 spp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 [cf. *Tubolaimella* Cobb 1933].

AXONOLAIMIDAE.

[See under Araeolaimoidea p. 123.]

Araeolaimoidea.

[sc. Axonolaimoidea.]

Araeolaimoidea ord. n. to include Axonolaimidae, Diplopeltidae, Camacolaimidae, Halaphanolaimidae, Plectidae with appendix Tripyloididae, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 93-96.

AXONOLAIMIDAE.

Allgénia gen. nom. n. pro *Fimbriella* Allgén 1929 nec Stoliczka, STRAND Folia Zool. Hydrobiol. Riga 6 1934 p. 271.

Araeolaimus filipjevi Stek. & Adam, Belgian coast, pp. 98-99 fig. 82, *cylindrica* Allg. syn. of *A. longicauda* Allg., *ditlevseni* Allg., *dolichoposthius* Savaljev and *spectabilis* Ditl. syns. of *A. elegans* Man p. 26, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Ascolaimus elongatus (Bütschli) syn. *A. filiformis* Ditl., Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 100-101 figs. 83-84.

Axonolaimidae transferred from Monhysteroidea to Araeolaimoidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Axonolaimus paraspinosus Stek. & Adam pp. 103-105 figs. 85-88, *spinosus* (Bütschli) p. 105, *demani* sp. n. p. 106, Belgian coast, *elegans* Schulz syn. of *Odontophora setosa* (Allg.), *serpentulus* Man and *tenuis* Schulz syns. of *Ascolaimus elongatus* (Bütschli), *similis* Schulz syn. of *paraspinosus* Stekh. & Adam p. 26, *polaris* Cobb. referred to *Odontophora* p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Coinonema Cobb syn. of *Araeolaimoides* Man, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933, p. 26.

Conolaimus Fil. syn. of *Odontophora* Bütschli, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 26.

Fimbriella Allgén 1929, preocc., renamed *Allgénia*, STRAND Folia Zool. Riga 6 1934 p. 271.

Odontophora armata (Ditl.) pp. 108-110 figs. 89-95, *longicauda* Stek. & Coninck p. 110, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Parachromagaster Allg. syn. of *Araeolaimus* Man, pp. 26, 97, *tenuis* Allg. syn. of *Araeolaimus longicauda* Allg., *P. sabulicola* syn. of *A. steineri* Fil. p. 27, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Trigonolaimus intermedius Allg. and *minor* Ditl. syns. of *Odontophora armata* (Ditl.) p. 27, *armatus* Ditl. and *setosus* Allg. referred to *Odontophora* p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

CAMACOLAIMIDAE.

Camacolaimoides gen. n. type *Camacolaimus praedator* Man, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 113.

Camacolaimus longicauda Man, Belgian coast, pp. 111-113 figs. 96-99, *bathycotyle* Fil. and *dolichocercus* Fil. referred to *Acontiolaimus, praedator* Man to *Camacolaimoides* p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Ypsilon Cobb syn. of *Camacolaimus* Man, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 26.

HALAPHANOLAIMIDAE.

Anaplectus gen. n. type *Plectus granulosus* Bast., CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 25, 94.

Bathylaimus Strandi sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 105 fig. 7.

Dermatolaimus parelegans sp. n. Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934 p. 52 fig. 4, *longiseta* sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 104 fig. 6.

Halaphanolaimidae fam. n. of Araeolaimoidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Paraphanolaimus Behningi Micol., Sweden, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 pp. 114-115 fig. 2.

PLECTIDAE.

Bitholinema Coninck syn. of *Wilsonema* Cobb, *B. schuurmans-stekhoveni* Coninck syn. of *Wilsonema capitatum* Cobb, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 26.

Paraplectonema **gen. nom. n.** pro *Paraplectus* Filipjev 1930 nec Rattray, STRAND Folia Zool. Riga 6 1934 p. 271.

Paraplectus Filipjev 1930 preocc., renamed *Paraplectonema*, STRAND Folia Zool. Riga 6 1934 p. 271.

Plectidae transferred from Chromadoroidea to Araeolaimoidea, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.

Plectus granulatus Bast. referred to *Anaplectus*, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 28.—*P. tenuis* de Man, south coast Sweden, ALLGÉN Folia zool. hydrobiol. Riga 5 1934 p. 300 fig. 4.

Enoploidea.

ENOPLIDAE.

Boggenia Allg. syn. of *Trefusia* Man. *littoralis* Allg. syn. of *Trefusia longicauda* Mar., CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 26.

Cophonchus Cobb 1920 syn. of *Phanoderma* Bast., FILIPJEV Smithson. Misc. Coll. 89 vi 1934 p. 9.

Crenopharynx **gen. nom. n.** pro *Stenolaimus* Southern 1914 nec Marion 1870 type *Anoplostoma gracile* Linst., FILIPJEV Smithson. Misc. Coll. 89 vi 1934 p. 9.

Enoploidea **ord. n.** to include Enopliidae, Dorylaimidae, Leptosomatidae, Oncholaimidae and Oxystomidae [sc. Oxystominidae], CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Enoploides suecicus **sp. nom. n.** pro *Enoplolaimus saveljevi* Allg. nec Filip., CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Enoplolaimus sp., Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 97 fig. 1.—*E. propinquus* Man, Belgian coast pp. 40–43 figs. 4–10, *campbelli*, Allg. syn. of *Oxyonchus australis* (Man), *E. polaris* Fil. syn. of *O. dentatus* (Ditl.) p. 27, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.—*E. diplochma* (Southern), note on male spicules, DITLEVSEN Vid. Medd. Dansk. nat. Foren. København 97 1934 pp. 207–210 2 figs.

Enoplus communis Bast., Belgian coast, pp. 35–37 figs. 1–3, *quadridentatus* Berlin syn. of *E. hirtus* Marion, *communis* var. *meridionalis* Steiner syn. of *striatus* Eberth p. 27, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.—*E. marinus* (Leidy 1855), Maine and New Jersey, COBB & STEINER J. Washington Acad. Sc. 24 1934 pp. 59–61 fig. 2.

Galeonema Fil. 1927 syn. of *Phanodermopsis* Ditlevsen, FILIPJEV Smithson. Misc. Coll. 89 vi 1934 p. 9.

Gullmarnia Allgén 1929 syn. of *Klugea* Filipjev, FILIPJEV Smithson. Misc. Coll. 89 vi 1934 p. 9.

Klugea trilabia Fil. p. 31 fig. 26, *pigmentata* **sp. n.** p. 32 fig. 27, *filiformis* (Allg.) p. 33 fig. 28, ALLGÉN Capita zool. 's Gravenhage 4 1934 iv.

Marionella Cobb 1921 syn. of *Eurystomina* Fil., FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 9.

Mesacanthion Filipjev raised to generic rank, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Nasinema polare (Steiner), Barents Sea, ALLGÉN Capita zool. 's Gravenhage 4 1934 iv pp. 13–14 fig. 4.

Oxyonchus Filipjev raised to generic rank, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 25.

Phanoderma setigerum (Marion) p. 14 fig. 5, *steineri* Ditl. p. 15 fig. 6, *campbelli* Allg. p. 15 fig. 7, *conicaudatum* (Steiner) p. 16 fig. 8, *ocellatum* (Cobb) p. 17 fig. 9, *tuberculatum* (Eberth) p. 18 fig. 10, *filipjevi* Micol. p. 19 fig. 11, *cocksii* Bast. p. 19 fig. 12, *ditlevseni* Filip. p. 20 fig. 13, *serratum* Ditl. p. 21 fig. 14, *albidum* Bast. p. 22 fig. 15, *gracile* Man p. 22 fig. 16, *macrophallum* Steiner p. 23 fig. 17, *laticolles* (Marion) p. 24 fig. 18, *islandicum* Ditl. p. 25 fig. 19, *parasiticum* Ditl. p. 26 fig. 20, ALLGÉN Capita zool. 's Gravenhage 4 1934 iv.

Phanodermella longicaudata Kreis Spitzbergen, ALLGÉN Capita zool. 's Gravenhage 4 1934 iv p. 28 fig. 21.

Phanodermopsis grönlandicum Ditl. p. 29 fig. 22, *reductum* (Filip.) p. 30 fig. 23, *caudatum* (Filip.) p. 30 fig. 24, *cylindrocaudatum* Kreis p. 31 fig. 25, ALLGÉN Capita zool. 's Gravenhage 4 1934 iv.

Stenolaimus Southern 1914, nec Marion, renamed *Crenopharynx*, FILIPJEV Smithson. Misc. Coll. **89** vi 1934 p. 9.

OXYSTOMINIDAE.

Halalaimus Strandii sp. n. Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga **6** 1934 p. 51 fig. 3.

LEPTOSOMATIDAE.

Anticoma longisetosa Kreis syn. of *Ascolaimus elongatus* (Bütschli), CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. **58** 1933 p. 26.

Dactylonema Fil. 1927 syn. of *Platycomopsis* Dtl., FILIPJEV Smithson. Misc. Coll. Washington **89** vi 1934 p. 8.

Stenolaimus Marion 1870 syn. of *Anticoma* Bast., FILIPJEV Smithson. Misc. Coll. **89** vi p. 8.

ONCHOLAIMIDAE.

Adoncholaimus panicus sp. n. N. America, COBB J. Washington Acad. Sci. **20** 1930 p. 227 fig. 7.—*A. nudus* p. 63, *meridionalis* p. 64, *papillatus* p. 65, *bandaensis* p. 66 spp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. naturh. Foren. Københ. **93** 1932-33.—*A. thalassophygas* (Man), Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. **58** 1933 p. 47 figs. 15-16.—*A. nudus* Kreis p. 241 fig. 131, *meridionalis* Kreis p. 244 fig. 132, *bandaensis* Kreis p. 249 fig. 133, *papillatus* Kreis p. 252 fig. 134, KREIS Capita zool. **4** v 1934.

Anoncholaimus mobilis Cobb, KREIS Capita zool. **4** v 1934 p. 193 fig. 109.

Cacolaimus gen. n. Oncholaiminae, *papillatus* sp. n., Sunda Is., KREIS Vidensk. Medd. nat. Foren. Københ. **93** 1932 p. 61, Capita zool. **4** v 1934 p. 218 fig. 122.

Convexolaimus flicaudatus Kreis, KREIS Capita zool. **4** v 1934 p. 196 fig. 113.

Dioncholaimus gen. n. Oncholaiminae, *brevicaudatus* sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. Københ. **93** 1932-33 pp. 38-39, Capita zool. **4** v 1934 p. 145 fig. 84.

Doryonchus gen. n. Oncholaiminae, *typicus* sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. Københ. **93** 1932-33 pp. 31-32, Capita zool. **4** v 1934 p. 124 fig. 73.

Filipjevia meridionalis sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. Københ. **93** 1932-33 p. 26, Capita zool. **4** v 1934 p. 109 fig. 66.

Filoncholaimus dilleveseni (Kreis) p. 163 fig. 90, *longissime-caudatus* (Kreis) p. 165 fig. 91, KREIS Capita zool. **4** v 1934.

Meroviscosia gen. n. Oncholaiminae, *longicaudata* sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København **93** 1932-33 p. 52, Capita zool. **4** v 1934 p. 192 fig. 108.

Metaparoncholaimus gen. n. Oncholaimidae, for *Oncholaimus campylocercus* Man and *O. orientalis* Cobb, CONINCK & STEKHOVEN Mém. Mus. Hist. Nat. Belg. **58** 1933 pp. 48-51 figs. 17-19.—Note on genus, KREIS Capita zool. **4** v 1934 p. 230.

Metoncholaimus pristiurus (Strassen), syn. *M. denticaudatus* Stekh. & Adam, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. **58** 1933 pp. 55-56, KREIS Capita zool. **4** v 1934 p. 228 fig. 127.

Mononcholaimus filiformis p. 32, *setosus* p. 33, *keiensis*, *papillatus* p. 34, *labiatus* p. 35, *parasetosus* p. 36, *conicaudatus* p. 37, *bandaensis* p. 38 spp. n., *elegans* Kreis p. 33, *tasmaniensis* (Allg.) p. 35, Sunda Is., KREIS Vid. Medd. Dansk. nat. Foren. Københ. **93** 1932-33.—*M. filiformis* Kreis p. 128 fig. 74, *elegans* Kreis p. 130 fig. 75, *keiensis* Kreis p. 131 fig. 76, *bandaensis* Kreis p. 132 fig. 77, *papillatus* Kreis p. 135 fig. 78, *labiatus* Kreis p. 137 fig. 79, *conicaudatus* Kreis p. 138 fig. 80, *tasmaniensis* (Allg.) p. 139 fig. 81, *setosus* Kreis p. 141 fig. 82, *parasetosus* Kreis p. 143 fig. 83, KREIS Capita zool. **4** v 1934.

Nudolaimus simplex Allg., KREIS Capita zool. **4** v 1934 p. 194 fig. 111.

Oncholaimellus calvadosicus Man, Belgian Coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. **58** 1933 pp. 44-47 figs. 11-14, KREIS Capita zool. **4** v 1934 p. 191 fig. 107.

Oncholaiminae, monograph, KREIS Capita zool. **4** v 1934 271 pp. 135 figs.

Oncholaimium gen. n. Oncholaiminae, *appendiculatum* sp. n. N. America, COBB J. Washington Acad. Sci. **20** 1930 p. 227 figs. 2, 3, 8, 9.—*O. brevicaudatum* p. 58, *cobbi* p. 59, *longicaudatum* p. 60

spp. n., Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*O. longicaudatum* p. 233 fig. 128, *brevicaudatum* Kreis p. 235 fig. 129, *cobbi* Kreis p. 236 fig. 130, KREIS Capita zool. 4 v 1934.

Oncholaimus nigrocephalatus, serpens pp. n., N. America, COBB J. Washington Acad. Sci. 20 1930 p. 227.—*O. brevisetosus* p. 53, *elegans* pp. 53-54, *keiensis* p. 54, *longicavatus* p. 55, *rapax* p. 56 spp. n., *viridis* Bast. p. 55, Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*O. campyloceroideus* sp. nom. n. pro *O. campylocereus* Fil. nec Man p. 25; *aeguedentatus* Stekhoven & Adam syn. of *Metaparoncholaimus campylocercus* (Man), *O. albidus* Rouville syn. of *Metoncholaimus pristiurus* (Strassen), *O. littoralis* Allg. syn. of *Oncholaimellus calvadosicus* Man, *O. marinus* Schulz syn. of *Oncholaimus brachycercus* Man p. 27, *campylocercus* Man referred to *Metaparoncholaimus* p. 28, *brachycercus* Man pp. 51-52 figs. 20-22, *oxyuris* Dtl. pp. 53-55 figs. 23-27, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.—*O. oxyuroides* sp. n. in roots of *Cacile*, Sweden, ALLGÉN Folia zool. hydrobiol. Riga 5 1934 pp. 291-292 fig. 1.—*O. elegans* Kreis p. 202 fig. 114, *marinus* Schulz p. 203 fig. 115, *brevisetosus* Kreis p. 205 fig. 116, *keiensis* Kreis p. 206 fig. 117, *rapax* Kreis p. 207 fig. 118, *longicavatus* Kreis p. 211 fig. 119, *viridis* Bast. p. 212 fig. 120, KREIS Capita zool. 4 v 1934.

Paroncholaimus Filipjev 1916 syn. of *Pontonema* Leidy 1855, COBB & STEINER J. Washington Acad. Sc. 24 1934 p. 57.—*P. parvus* p. 39, *ocellatus* p. 40, *elongatus* p. 41, spp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*P. elongatus* Kreis p. 151 fig. 86, *ocellatus* Kreis p. 153 fig. 87, *parvus* Kreis p. 157 fig. 88, *balticus* Schulz p. 158 fig. 89, KREIS Capita zool. 4 v 1934.

Pelagonema keiense p. 27, *anoplum* p. 28, spp. n., Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*P. keiense* Kreis p. 113 fig. 67, *anoplum* Kreis p. 115 fig. 68, KREIS Capita zool. 4 v 1934.

Pelagonemella gen. n. Oncholaiminae, *javanensis* sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren.

Københ. 93 1932-33 pp. 30-31, (*javanense*), KREIS Capita zool. 4 v 1934 p. 121 fig. 71.

Phaenoncholaimus gen. n. Oncholaiminae, type *Oncholaimus monodon* Dtl., KREIS Capita zool. 4 v 1934 p. 147 fig. 85.

Polydontus marinus Schulz, KREIS Capita zool. 4 v 1934 p. 254 fig. 135.

Pontonema vacillatum Leidy, Maine, North America, COBB & STEINER J. Washington Acad. Sc. 24 1934 pp. 57-59 fig. 1.

Prooncholaimus keiensis p. 61, *ornatus* pp. 61-62, *obtusicaudatus* p. 62, *longisetosus* p. 63 spp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*P. obtusicaudatus* Kreis p. 220 fig. 123, *longisetosus* Kreis p. 221 fig. 124, *keiensis* Kreis p. 222 fig. 125, *ornatus* Kreis p. 224 fig. 126, KREIS Capita zool. 4 v 1934.

Pseudoncholaimus gen. n. Oncholaiminae, *elegans* sp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932 pp. 57-58, Capita zool. 4 v 1934 p. 215 fig. 121.

Pseudoparoncholaimus gen. n. Oncholaiminae, type *Oncholaimus filicaudatus* Dtl., *ditlevseni* p. 42, *longissime-caudatus* p. 43 spp. n., Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.

Pseudopelagonema gen. n. Oncholaiminae, type *elegans* p. 29, *filiformis* pp. 29-30, spp. n. Sunda Is., KREIS Vidensk. Medd. Dansk. nat. Foren. København. 93 1932-33.—*P. elegans* Kreis p. 116 fig. 69, *filiformis* p. 119 fig. 70, KREIS Capita zool. 4 v 1934.

Steineria Ditlevsen 1926 preocc. renamed *Steineriella*, ALLGÉN Arch. Naturg. Berlin N.F. 1 1932 p. 432; syn. of *Viscosia* De Man, FILIPJEV Smithsonian. Misc. Coll. 89 vi 1934 p. 9.

Steineriella gen. nom. n. pro *Steineria* Ditlevsen 1926 preocc., ALLGÉN Arch. Naturg. Berlin N.F. 1 1932 p. 432.—*S. megalaima* (Dtl.), KREIS Capita zool. 4 v 1934 p. 195 fig. 112.

Trilepta guttata Cobb, KREIS Capita zool. 4 v 1934 p. 194 fig. 110.

Urolabes barbata Carter syn.? of *Oncholaimus oxyuris* Dtl., CONINCK & STEKHOVEN Mém. Mus. Hist. Nat. Belg. 58 1933 p. 27.

Viscosia glabra Bast. p. 43, *paridentata* p. 44, *crassa* p. 44, *pseudoglabra* p. 45, *keiensis* p. 46, *meridionalis* p. 47, *leptolaima* p. 48, *bandaensis*, *isotonchula* p. 49, *nuda* p. 50, *macrorhopalocerca*, *dubiosa* p. 51 spp. n. *carnleyensis* (Ditl.) var. *tropica* var. n. p. 46, *brachylaima* Filip. p. 48, Sunda Is. KREIS Vidensk. Medd. Dansk. nat. Foren. Københ. 93 1932-33.—*V. langrunensis* Man, Sweden, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 123 fig. 1 a, b.—*V. carnleyensis* (Ditl.) p. 170 fig. 92 var. *tropica* Kreis p. 171 fig. 93, *nuda* Kreis p. 172 fig. 94, *meridionalis* Kreis p. 174 fig. 95, *glabra* (Bast.) p. 177 fig. 96, *keiensis* Kreis p. 178 fig. 97, *dubiosa* Kreis p. 180 fig. 98, *pseudoglabra* Kreis p. 181 fig. 99, *crassa* Kreis p. 182 fig. 100, *isotonchula* Kreis p. 183 fig. 101, *macrorhopalocerca* Kreis p. 184 fig. 102, *bandaensis* Kreis p. 185 fig. 103, *paridentata* Kreis p. 186 fig. 104, *leptolaima* p. 188 fig. 105, *brachylaima* Fil. p. 189 fig. 106, KREIS Capita zool. 4 v 1934.

TRILOBIDAE.

Ditlevsenia Micoletzky 1925 syn. of *Cryptonchus* Cobb, FILIPJEV Smithson. Misc. Coll. 89 vi 1934 p. 13.

Mononchus rotundicaudatus Skwarra, South coast of Sweden, ALLGÉN Folia zool. hydrobiol. Riga 5 1934 p. 299 fig. 2.—*M. spectabilis* Ditl. pp. 119-121 figs. 1, 2, *rotundicaudatus* Skwarra pp. 121-122 fig. 3, 4, ALLGÉN Folia zool. hydrobiol. Riga 7 1934.

Prismatolaimus intermedius Coninck nec Bütschli = *Anoplostoma blanchardi* Man, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 p. 27.

TRIPYLOIDIDAE.

Bathylaimus Cobb, key to species pp. 116-117, *assimilis* Man pp. 117-120 figs. 100-109, Belgian coast, *denticaudatus* Allg. syn. of *Parabathylaimus ponticus* (Fil.), p. 26, *ponticus* Fil. and *profundus* Fil. referred to *Parabathylaimus* p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. Nat. Belg. 58 1933.—*B. inermis* Ditl., South Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934 p. 56 fig. 7.

Othionolaimus Ditl. syn. of *Bathylaimus* Cobb p. 26, *gracilis* Ditl. syn. of *Tripyloides septentrionalis* Coninck &

Stekhoven, *sabulicolus* Schulz syn. of *Bathylaimus inermis* (Ditl.), *similis* Allg. syn. of *Bathylaimus septentrionalis* (Fil.) p. 26, *filicaudatus* Stekh. & Adam, *inermis* Ditl., *longisetosus* Allg. and *septentrionalis* Fil. referred to *Bathylaimus*, *tenuis* Kreis referred to *Sphaerolaimus* p. 28, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

Parabathylaimus gen. n. *Tripyloididae*, type *Bathylaimus ponticus* Fil., CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 25, 120.

Tripyloides vulgaris Man syn. of *T. marinus* (Bütschli) p. 27, *marinus* (Bütschli) pp. 121-123 figs. 110-112, *septentrionalis* sp. nom. n. pro *marinus* Man nec Bütschli, pp. 123-124 figs. 113-115, Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

SYMPLOCOSTOMATIDAE.

Pareurystomina filicaudatum sp. n. Öresund, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 100 fig. 2.

Dorylaimoidea.

Dorylaimoidea superf. n. to include Dorylaimidae and Alaimidae, THORNE Proc. Helminth. Soc. Washington 1 1934 p. 19.

DORYLAIMIDAE.

Diphtherophora rhabditiformis Rahm type of *Himatidiophila* gen. n., RAHM Arch. Naturg. Berlin 90A 1924 p. 176.

Dolicholaimus marioni de Man, Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934 p. 56 fig. 6.

Dorylaimidae de Man, emend., THORNE Proc. Helminth. Soc. Washington 1 1934 p. 19.

Syringolaimus smaragdus Cobb. syn. of *S. striaticaudatus* Man p. 27, *striaticaudatus* Man, Belgian coast p. 58 figs. 28, 29, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933.

ALAIMIDAE.

Alaimidae Micol. emend to include only *Alaimus* and *Bolbinium*, THORNE Proc. Helminth. Soc. Washington 1 1934 p. 19.

Mermithoidea.

MERMITHIDAE.

Gordiormis gen. n. Mermithidae, type *Chordodes hamatus* Römer, West Africa, HEINZE Zool. Anz. Leipzig 106 1934 pp. 190-191.

Octormis Steiner 1929 syn of *Neormis* Linst., FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 17.

Rhabditoidea.

ANGUILLULINIDAE.

[TYLENCHIDAE.]

Anguillulina dipsaci (Kühn) on bulbous irises, HODSON J. Helminth. St. Albans 12 1934 pp. 33-38 1 pl.—*A. dipsaci* var. *allocatus* var. n. in soil, Virginia, STEINER Proc. Helminth. Soc. Washington 1 1934 pp. 18-19 fig. 7.—*A. pratensis* (Man) in roots of fig, California, pp. 755-757 figs. 1, 2, *pustulicola* sp. n. on grass, Mexico, pp. 757-760 figs. 3, 4, *phyllobia* sp. n. on leaves of *Solanum elaeagnifolium*, Arizona, pp. 760-762 figs. 5, 6, THORNE J. Agric. Res. Washington 49 1934.—*A. cecidoplastes* sp. n., causing galls on grass, *Andropogon pertusus*, India, GOODEY J. Helminth. St. Albans 12 1934 pp. 225-236 5 figs.

Aphelenchoides ritzema-bosi Schwartz on chrysanthemum, EDWARDS J. Helminth. St. Albans 12 1934 pp. 23-32 3 pls.—*A. heterophallus* sp. n. in sugar cane from Jamaica, STEINER J. Wash. Acad. Sc. 24 1934 pp. 141-143 5 figs.—*A. xylophilus* sp. n. on Louisiana pine, *Pinus palustris*, N. America, STEINER & BUHRER J. Agric. Res. Washington 48 1934 pp. 949-951 8 figs.

Bitylenchus subg. n. of *Tylenchus*, to include *Tylenchus dubius*, T. browni, etc., FILIPJEV нематоды вредные и полезные 1934 p. 152.

Ditylenchus gen. n. Tylenchidae, type *Anguillula dipsaci* Kühn, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

Heterodera punctata sp. n. on wheat, Saskatchewan, THORNE Sci. Agric. Washington 8 1928 pp. 707-710.

Neoplectana feltiae sp. n. in caterpillars of *Feltis segetum*, E. Russia, FILIPJEV Mag. Parasitol. Inst. Zool. Acad. Sc. U.R.S.S. 4 1934 pp. 229-240 figs.

Neotylenchus Steiner 1931 syn. of *Hexatylenchus* Goodey 1929, GOODEY Plant. Parasitic Nematodes 1933 p. 242.—*N. obesus* sp. n. on alfalfa, Colorado, THORNE J. Agric. Res. Washington 49 1934 pp. 762-763 fig. 7.

Paraphelenchus amblyurus sp. n. in tubers of cinnamon-vine, *Dioscorea batatas*, Japan, STEINER Proc. Helminth. Soc. Washington 1 1934 pp. 15-17 fig. 6 a-f.

Paratylenchus besoeikianus sp. n. on coffee plants, BALLY & REYDON Arch. Koffiecult. Ned. Ind. Batavia 5 (ii) 1931 p. 23.—*P. macrophallus* (de Man) syns. *P. bukovinensis* Micoletzky 1921, *P. nanus* Cobb 1923, *P. anceps* Cobb 1923, *P. besoeikianus* Bally & Reydon 1931, GOODEY J. Helminth. St. Albans 12 1934 pp. 79-88 6 figs.

Pathoaphelenchus Cobb 1927 syn. of *Aphelenchoides* Fischer, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

Pratylenchus gen. n. Tylenchidae, type *Tylenchus pratensis* Man, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

Rotylenchus gen. n. Tylenchidae, type *Tylenchus robustus* Man, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

Tylenchinae Micoletzky 1922: suppressed, BAYLIS & DAUBNEY Synopsis 1926 p. 65.

Tylenchus (*Chitinotylenchus*) *zostericola* sp. n. Swedish coast, ALLGÉN Folia zool. hydrobiol. Riga 6 1934 p. 74 fig. 13.

DIPLOGASTRIDAE.

Alloionema appendiculatum var. *dubia* var. n. in musculature of foot and tentacles of *Succinea avara*, Maryland, United States, CHITWOOD & MCINTOSH Proc. Helminth. Soc. Washington 1 1934 pp. 37-38 fig. 13.

Alloionematinæ subf. n. of Diplogastridæ to include *Alloionema*, *Rhabditophanes*, *Cheilobus* and possibly *Turbatrix*, *Seleneella* and *Macrolaimus*, CHITWOOD & MCINTOSH Proc. Helminth. Soc. Washington 1 1934 p. 38.

Cylindrogaster Goodey 1927 syn. of *Aulolaimus* Man, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

Diplogaster aerivora Cobb in diseased celery root, from Sweden, STEINER Proc. Helminth. Soc. Washington 1 1934 pp. 56-58 fig. 21a-f.

Longibucca lasiura sp. n. in small intestine of bats, *Lasiurus borealis* and *Eptesicus fuscus*, Washington, U.S.A., McINTOSH & CHITWOOD Parasitol. Cambridge 26 1934 pp. 138-140 5 figs.

Tylenchodon Fuchs 1930 syn. of *Neodiplogaster* Cobb, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 32.

RHABDITIDAE.

Himatidiophila gen. n. type *Diphtherophora rhabditiformis* Rahm, RAHM. Arch. Naturg. Berlin 90A 1924 p. 176.

Rhabditis marina Bast., Belgian coast, CONINCK & STEKHOVEN Mém. Mus. Hist. nat. Belg. 58 1933 pp. 147-149 figs. 161-163, Sweden, ALLGÉN Folia zool. hydrobiol. Riga 7 1934 p. 128 fig. 2.—*R. chitinolabiatum* sp. n. sine descr., THIENEMANN Arch. Hydrobiol. Stuttgart suppl. 13 1934 p. 25.

Turbatrix Peters 1927 syn. of *Anguillula* Mueller, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 29.

CEPHALOBIDAE.

Cephalobidae fam. n. to include Cephalobinae and Daubayliinae, CHITWOOD & CHITWOOD Proc. Helminth. Soc. Washington 1 1934 p. 8.

Cephalobus Strandi-cornutus sp. n. south coast of Sweden, ALLGÉN Folia zool. hydrobiol. Riga 5 1934 p. 301 fig. 5.—*C. seistanensis* Baylis and Daubney 1922 type of *Daubaylia*, CHITWOOD & CHITWOOD Proc. Helminth. Soc. Washington 1 1934 p. 9.—*C. contractus* (Thorne) in diseased celeriac root from Sweden, STEINER Proc. Helminth. Soc. Washington 1 1934 p. 56 fig. 21 g-j.

Daubaylia gen. n. Cephalobidae, *potomaca* sp. n. in pulmonary cavity of snail, *Planorbis (Helisoma) trivolvis*, Virginia, CHITWOOD & CHITWOOD Proc. Helminth. Soc. Washington 1 1934 pp. 8-9 fig. 4.

Daubayliinae subf. n. Cephalobidae' type *Daubaylia* gen. n., CHITWOOD & (N-4573 o)

CHITWOOD Proc. Helminth. Soc. Washington 1 1934 p. 8.

Neocephalobus Steiner 1929 raised to generic rank, STEINER Proc. Helminth. Soc. Washington 1 1934 p. 54.

Plectonchus Fuchs 1930 syn. of *Cephalobus* Bastian, FILIPJEV Smithson. Misc. Coll. Washington 89 vi 1934 p. 30.

Procephalobus gen. n. Cephalobidae, *mycophilus* sp. n. in sclerotia of fungus, *Balansia claviceps*, N. America, STEINER Proc. Helminth. Soc. Washington 1 1934 pp. 55-56 fig. 20.

STRONGYLOIDIDAE.

Strongyloides pereirai sp. n. in intestine of amphibian, *Elosia rustica*, Brazil, TRAVASSOS Ann. Acad. Brasil. Sc. 4 1932 pp. 39-40 figs. 1, 2.—*S. papillosus* (Wedl) in *Camelus bactrianus*, Urals, ENIGK Sitzber. Ges. naturf. Fr. Berlin 1933 pp. 271-272 fig 1.—*S. chapini* Sandground in intestine of nutria (*Myocastor coypus*), ENIGK Z. Parasitenk. Berlin 6 1933 pp. 326-327 fig. 1.

Strongyloididae fam. n. Rhabditoidae, type *Strongyloides* Grassi, CHITWOOD & McINTOSH Proc. Helminth. Soc. Washington 1 1934 p. 38.

Oxyuroidea.

OXYURIDAE.

Auchenacantha galeopteri Baylis p. 484, *parva* p. 486 figs. 6, 7, 12, 13, 16-20, *purvisi* p. 486 figs. 8-11, 21-25, *magna* p. 487 figs. 4, 5, 14, 15, spp. n. in intestine of *Galeopithecus volans*, Malaya, ROBINSON Parasitol. Cambridge 26 1934.

Citellina levini sp. n. in intestine of *Sciurus vulgaris*, China, LI Chinese Med. J. Shanghai 47 1933 pp. 1319-1321 pl. i figs. 1, 5-8.—*C. marmotae* Manter in woodchuck, *Marmota monax*, New York Zoo, McCCLURE Zoologica New York 15 1934 pp. 54-55.

Dermatoxys veligera (Rud.) in cotton tail rabbit, *Sylvilagus sylvaticus*, New York Zoo, McCCLURE Zoologica New York 15 1934 pp. 56-57.

Orysomatium mexicanum sp. n. in cloaca of *Dermophis mexicanus* (Gymnophiona), Mexico, CABALLERO An. Inst. Biol. Mexico 4 1933 pp. 187-190 6 figs.

Oxyuris bipapillata Gedeoelst in intestine of chimpanzee, SCHEIDEGGER & KREIS Z. Parasitenk. Berlin 7 1934 pp. 54-60 figs. 6-8.

Passalurus nonnulatus Skinner in cotton tail rabbit, *Sylvilagus sylvaticus*, New York Zoo, McCURE Zoologica New York 15 1934 pp. 55-56.

Skrjabinema orearni sp. n. in colon and cecum of mountain goat, *Oreamnos americanus*, and caribou, *Rangifer* sp., Rocky Mountains, Canada, *tarandi* Skrz. and Mizkow. 1930 syn. of *S. ovis* (Skrz.), SWALES Canad. J. Res. Ottawa 10 1934 pp. 527-530 11 figs.

Syphacia thompsoni Price in intestine of *Sciurus vulgaris* and *Sciurotamias davidiensis*, China Li Chinese Med. J. Shanghai 47 1933 pp. 1321-1322 pl. i figs. 9, 9a.

HETERAKIDAE.

Africana howardi sp. n. in small intestine of *Bufo formosus* and *B. asiaticus*, China, Li Chinese Med. J. Shanghai 47 1933 pp. 1322-1324 pl. iv figs. 24-29.

Ganguleterakis triaculeatus sp. n. in intestine of *Corucia zebrata*, Solomon Islands, KREIS Z. Parasitenk. Berlin 6 1933 pp. 332-338 8 figs.

Heterakis papillosa Bloch pp. 526-527 fig. 10, *perspicillum* Rud. pp. 527-528 fig. 11 in caeca of fowl, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922.—*H. lingnamensis* sp. n. in intestine of *Gallus domesticus* pp. 1310-1311 pl. ii figs. 10, 13, 14, *isolonche* Linst. in intestine of *Crysolaphus pictus* pp. 1311-1312 pl. ii figs. 11, 12, *spumosa* Schn. in intestine of *Mus rattus* pp. 1312-1313 pl. iii figs. 21, 22, *papillosa* Bloch in intest. of *Tetrastes bonasia* p. 1314 pl. iii figs. 17, 23, *beramporia* Lane in caecum of *Gallus domesticus* pp. 1315-1316 pl. iii figs. 18, 19, *parisi* Blanc in *Phasianus colchicus* pp. 1316-1317 pl. iii figs. 15, 16, China, Li Chinese Med. J. Shanghai 47 1933.

SUBULURIDAE.

Heteroxyrma muris sp. n. in large intestine of *Mus rattus*, Brazil, Vaz & PEREIRA Folia Clinica Biol. S. Paulo 6 i 1934 3 pp. 4 figs.

Hoplodontophorus flagellum (Ehrenb.) in rectum of hyrax, *Procavia Antineae* Sahara, DOLLFUS & MONOD Bull. Soc. Hist. Nat. Afrique Nord Algér 24 1933 pp. 327-341 18 figs.

Numidica alata sp. n. in small intestine of common Indian fox, *Vulpes alopec*, MAZHAR Zeitschr. Parasitenk. Berlin 6 1933 p. 269 figs. 1-3.—*N. petrodromi* sp. n. in caecum of elephant-shrew, *Petrodromus nigriseta*, Tanganyika, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 340-343 figs. 1, 2.

Subulura halli Barreto in *Otis tarda* pp. 1317-1318 pl. i figs. 2-4, *brumpti* (Lop.-Ney.) in *Turtur orientalis* pp. 1318-1319 pl. iii fig. 20 China, Li Chinese Med. J. Shanghai 47 1933.—*S. otolici* (v. Ben.) in caecum of *Paraxerus ochraceus*, Tanganyika, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 p. 340.

THELASTOMATIDAE.

Artigas gen. n. Thelastomatinae type *Hystrignathus leidy* Artigas 1926, CHRISTIE Proc. Helminth. Soc. Washington 1 1934 p. 44.

Leidynema appendiculatum (Leidy) in hindgut of cockroach, *Periplaneta americana*, Kansas, DOBROVOLNY & ACKERT Parasitol. Cambridge 26 1934 pp. 470-472 10 figs. pl. xxiii.

Lepidonema bifurcatum Cobb in larva of unidentified insect, Australia, CHRISTIE Proc. Helminth. Soc. Washington 1 1934 p. 44.

Parathelandros anolis sp. n. in rectum of lizard, *Anolis cristatellus*, Porto Rico, CHITWOOD Smithsonian. Misc. Coll. 91 xi 1934 pp. 1-2 figs. 1-6.

ATRACTIDAE.

Atractis trematophila sp. n. in caeca of amphistome trematode, *Nematophila grandis* (Dies.), Brazil, TRAVASSOS Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 267-268 pl. l figs. 1, 2, li figs. 3, 4.

Carnoyinae subf. n. of Atractidae, to include *Rondonema*, *Carnoya* and *Pararhabditis*, FILIPJEV Smithsonian. Misc. Coll. Washington 89 vi 1934 p. 37.

Ichtyocephalus artigasi sp. n. in intestine of myriapods (Iulidae), Brazil, ALMEIDA C.R. Soc. Biol. Paris 114 1933 pp. 1193-1195 2 figs.

KATHLANIIDAE.

Hystriognathus rigidus Leidy in intestine of *Passalus cornutus*, United States, N. America, pp. 45-46 figs. 15-17, *Hystrix* (Cobb) in *Passalus*, Australia and U.S.A. p. 47, CHRISTIE Proc. Helminth. Soc. Washington 1 1934.

QUIMPERIIDAE.

Paraquimperia gen. n. Quimperiidae, type *Nematoxys tenerimus* Linst. in intestine of *Anguilla anguilla*, England, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 235-240 3 figs.

Ascaridoidea.

ASCARIDIDAE.

Ascaris capsularia Rud. in *Merluccius merluccius*, Mediterranean, morphology and possible life-history, REMOTTI Boll. Mus. Zool. Anat. Comp. Genova 13 lxiv 1933 pp. 1-26 17 figs., lxviii pp. 1-15 2 figs.—*A. lumbricoides* L. in intestine of bear, *Ursus arctos yesoensis*, Japan, INUKAI & YAMASHITA Trans. Sapporo Nat. Hist. Soc. 13 1934 pp. 324-325 3 figs.—*A. holoptera* Rud. in intestine of *Testudo graeca*, STETTER München. Tierärztl. Woch. 85 1934 pp. 413-416 7 figs.

Ophidascaris filaria Duj. p. 481, *baylisi* sp. n. p. 482 figs. 1, 2 in intestine and stomach of python, *Python reticulatus*, Malaya, ROBINSON Parasitol. Cambridge 26 1934.

Polydelphis bicornuta sp. n. in small intestine of *Python reticulatus*, Malaya, ROBINSON Parasitol. Cambridge 26 1934 p. 483 fig. 3.

HETEROCHEILIDAE.

Amplicaeum involutum sp. n. in intestine of *Bufo regularis* and *Dispholidus typus* (Rept.), Southern Rhodesia, SANDGROUND Bull. Mus. Comp. Zool. Harvard 75 1933 p. 281.

Contracaecum osculatum (Rud.) in *Erignathus barbatus*, Greenland, HEINZE Wiss. Ergebn. Deutsch. Grönland. Exped. 6 1934 p. 185 fig. 1.—*C. magnum* in *Ophiodon elongatus*, *Leptocottus armatus* and *Apodichthys flavidus*, Pacific, pp. 211-214 figs. 6-10, *melanogrammi* in intestine of *Melanogrammus aeglefinus*, Atlantic, N. America, pp. 214-218 figs. 11-14, spp. n., SMEDLEY J. Helminth. St. Albans 12 1934.

Dujardinia baylisi sp. nom. n. pro *D. helicina* Baylis nec Molin p. 156, *paulista* Trav. pp. 157-158 pls. i-iii figs. 1-11, *longispicula* Trav. pp. 158-160 pls. iv-vi figs. 12-19 in stomach of *Caiman sclerops*, Brazil, TRAVASSOS Ann. Acad. Bras. Sc. Rio 5 1933.

Goezia nankingensis sp. n. in stomach of fishes, *Psephurus gladius*, *Leiocassis longirostris* and *Parasilurus asotus*, China, HSŪ Chinese Med. J. Shanghai 47 1933 pp. 1294-1297 figs. 5-7.

Multicaecum agile (Wedl) in stomach tumours of *Crocodilus palustris*, India, BHALERAO Ind. J. Vet. Sc. Calcutta 4 1934 pp. 247-252 4 figs.—*M. baylisi* Trav. in stomach of *Caiman sclerops*, Brazil, TRAVASSOS Ann. Acad. Bras. Sci. Rio 5 1933 pp. 161-162 pls. vii-x figs. 20-31.

Paradujardinia gen. n. Anisakiniae, type *Dujardinia halicoris* (Owen) in stomach of *Halicore dugong*, TRAVASSOS Ann. Acad. Bras. Sc. Rio 5 1933 pp. 162-163.

Strongyloidea.

STRONGYLIDAE.

Choniangium epistomum (Piana & Slazzy) in elephant, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 p. 509 fig. 5.

Murshidia falcifera (Cobbold) in stomach of elephant, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp. 508-509 fig. 4.

Oesophagostomum Brumpti Raill. & Henry in large intestine of an ape, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 p. 507 fig. 2.—*O. dentatum* (Rud.) structure of oesophagus, CHITWOOD J. Wash. Acad. Sc. 24 1934 pp. 557-562 3 figs.

Paroesophagostomum gen. n. Oesophagostominae, *polydentatum* sp. n. in intestine of chimpanzee, SCHEIDEGGER & KREIS Z. Parasitenk. Berlin 7 1934 pp. 48-54 figs. 4, 5.

Quilonia Renniei (Raill. & Henry) in elephant, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp. 507-508 fig. 3.

STEPHANURIDAE.

Stephanurus dentatus Dies. in pig, Spain, GARCIA Trab. Inst. Biol. anim. Madrid 1 1933 pp. 84-90 6 figs.

ANCYLOSTOMATIDAE.

Bunostomum trigonocephalum (Rud.) in sheep and ox, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp. 547-548 figs. 14, 15.

Necator americanus (Stiles) in large intestine of a pangolin (*Manis javanica*), Java, BAYLIS Ann. Mag. Nat. Hist. London (10) 12 1933 p. 443, in rodent, *Coendu villosus*, Brazil, ALMEIDA C.R. Soc. Biol. Paris 116 1934 pp. 1154-1155 fig. 1.

Uncinaria philippinensis Chitwood 1932 syn. of *U. longespiculum* Maplestone, BAYLIS Parasitol. Cambridge 25 1933 p. 315.

DIAPHANOCEPHALIDAE.

Kalicephalus tennesseensis sp. n. in duodenum of black snake, *Coluber constrictor constrictor*, Tennessee, HARWOOD J. Tenn. Acad. Sci. 9 1934 pp. 192-194 4 figs.—*K. chungkingensis* sp. n. in small intestine of *Elaphe taeniurus* and stomach of *Trimeresurus mucrosquamatus* pp. 375-377, *gongylophis* Maplest. in *Trimeresurus mucrosquamatus* and *T. jerdonii* pp. 377-378, *najae* Maplest. in intestine of unidentified snake p. 379, *indicus* Ortlepp p. 380, *nankingensis* sp. n. in *Dinodon rufozonatum* p. 381, *sinensis* sp. n. in *Elaphe taeniurus* and *E. porphyriacea* p. 383, China, Hsü Peking Nat. Hist. Bull. 8 1934.

TRICHOSTRONGYLIDAE.

Anoplostrongylus delicatulus (Schwartz), *A. ornatus* (Mönnig) and *A. alatus* (Ortlepp) transferred to *Molinostrongylus* gen. n., SKARBILOVITCH Ann. Parasit. Paris 12 1934 pp. 354-358.

Cooperia oncophora (Raill.) and *C. punctata* (Linst.) in small intestine of *Camelus bactrianus*, Urals, ENIGK SitzBer. Ges. naturf. Fr. Berlin 1933 pp. 273-274.

Haemonchus Sheatheri sp. n. in stomach of cattle, Dutch East Indies, SMIT & NOTOSOEDIRO in SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp.

509-510 fig. 6.—*H. similis* Trav. in calf, Korea, ISSHIKI Jap. J. Vet. Sc. Tokyo 12 1933 pp. 251-262 pls. xix, xx.

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Ortleppina longissima (Ortlepp) in stomach of *Anguilla pekinensis*, North China, LI Trans. Amer. Micr. Soc. Menasha 53 1934 p. 182 figs. 23-26.

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Yseria coronata (Molin) in gizzard of *Rallus elegans*, Maryland, N. America, WEHR J. Wash. Acad. Sci. 24 1934 pp. 346-347 figs. 10-15.

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Cyathospirura gen. n. Arduenninae, type *Habronema chevreuxi* Seurat 1913 in stomach of elephant-shrew, *Petrodromus nigriseta*, Tanganyika, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 344-346.

Gongylonema saimirisi sp. n. in oesophagus of a domesticated monkey, *Saimiris sciureus*, Brazil, ARTIGAS Rev. Méd. Lat.-Amer. 18 1933 p. 1232 [n.v.], Rev. Soc. Paulist. Med. Vet. S. Paulo 3 1933 pp. 83-88 6 figs.—*G. marsupialis* sp. n. in mucous membrane of oesophagus of *Didelphys aurita*, Brazil, VAZ & PEREIRA J. Washington Acad. Sci. 24 1934 pp. 55-56 fig. 2.

Oryspirura mansonii in conjunctiva of fowl, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp. 510-511 fig. 8.—*O. parvovum* Sweet 1910 syn. of *O. mansonii* (Cobbold 1879) BAYLIS Ann. Mag. Nat. Hist. London (1) 14 1934 pp. 118-120.

Rhabdochona uca sp. n. in intestine of crustacean, *Uca manii*, India, PEARSE Rec. Ind. Mus. Calcutta 34 1932 p. 293 figs. 4, 5.—*R. fortunatowi* sp. n. in intestine of *Varicorhinus capota sevani*, Lake Sevan, Armenia, DINNIK Rep. lim. Sta. Lake Sevan Erivan 4 1933 pp. 113-116 figs. 4, 5.

Skrjabinelazia hoffmanni sp. n. in small intestine of *Eremias argus*, North China, LI Trans. Amer. Micr. Soc. Menasha 53 1934 p. 183 figs. 34, 36, 39.

Thelazia Rhodesi Desmarest in conjunctiva of cattle, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 pp. 511-512 fig. 9.—*T. depressa* Baylis in orbit of vulture, *Sarcogyps calvus*, Siam [previously recorded in a mongoose, East Africa], BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 p. 223.—*T. aquilina* sp. n. in conjunctival sac of *Uroaetus audax*, *Hieracidea berigora* and *Haliaeetus leucogaster*, Queensland, BAYLIS Ann. Mag. Nat. Hist. London (10) 14 1934 pp. 150-153 figs. 8-10.

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Chlamydonema masoodi sp. n. in intestine of *Felis chaus*, India, MIRZA Ann. Parasit. Paris 12 1934 pp. 367-370 3 figs.

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shrew, *Crocidura* sp. Tanganyika, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 346-349 figs. 3-5.

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Crassicauda relations and systematic position pp. 25-27, *giliakiana* sp. n. in kidneys of beluga, *Delphinoptera leucos*, Sea of Okhotsk, pp. 18-23 figs. 1-10, *crassicauda* (Crepl.) p. 24 figs. 10-12, *boopis* Baylis p. 24 figs. 10, 13, SKRJABIN & ANDREWA Ann. Parasitol. Paris 12 1934.

Filarioidea.

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Ackertia gen. n. Filariinae, type *Litomosa burgosi* De la Barrera 1926 in abdominal cavity of *Cavia pamparum* and *C. aperca*, Argentine, Vaz Ann. Trop. Med. Liverpool 28 1934 pp. 143-144 fig. ii.

Aprocta semenovi sp. n. under nictitating membrane of *Caprimulgus europaeus*, Russia, SKRJABIN Ann. Parasit. Paris 12 1934 pp. 362-366 figs. 1, 2.

Aproctiana gen. n. Aproctinae, type *Aprocta meirai* Trav. in *Pyrrhura vittata*, SKRJABIN Ann. Parasit. Paris 12 1934 p. 364, 366.

Breinlia Yorke & Maplestone syn. of *Dipetalonema* Diesing, BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934 p. 551.

Dipetalonema evansi (Lewis) in kidneys of *Camelus bactrianus*, ENIGK SitzBer. Ges. naturf. Fr. Berlin 1933 pp. 276-277 figs. 4, 5.—*D. spelaea* (Leidy) in body cavity of *Trichosurus vulpecula* and *Macropus agilis*, Queensland, pp. 549-551, *capilliforme* sp. n. in hepatic veins of *Dasyurus hallucatus*, Queensland, pp. 551-554 2 figs., BAYLIS Ann. Mag. Nat. Hist. London (10) 13 1934.

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Eulimdana gen. n. of Aprocetinae, type *Filaria clava* Wedl in pigeon, FOUNKOFF Ann. Parasit. Paris 12 1934 pp. 61-66 5 figs.

Filaria Hellemansi sp. n. in blood vessels of pig, Dutch East Indies, SMIT Deutsch. Tierärztl. Woch. Hanover 30 1922 p. 510 fig. 7.—*F. patersoni* Mazza syn. of *Litomosoides carinii* (Trav.), VAZ Ann. Trop. Med. Liverpool 28 1934 p. 145.—*F. [Microfilaria] seguini* Mathis & Leger in blood of fowl, Formosa, SUGIMOTO J. Japan. Soc. Vet. Sc. Tokyo 13 1934 pp. 262-263 figs. 6-10.

Finlaynema gen. n. Filariidae, *guiterasi* sp. n. in peritoneal cavity of *Artibeus jamaicensis parvipes* [Chiroptera], Cuba, VIGUERAS Mem. Soc. Cubana Hist. Nat. Habana 8 1934 p. 58 pl. v figs. 1-5, transferred to *Litomosoides*, SANDGROUND Ann. Mag. Nat. Hist. London (10) 14 1934 p. 596.

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Setaria labiato-papillosa Alles. in peritoneal cavity of *Bos indicus*, India, MAZHAR Zeitschr. Parasitenk. Berlin 6 1933 pp. 271-272.—*S. thuaiti* sp. n. in peritoneal cavity of black antelope, *Hippotragus equinus gambianus* and *Kobus defassa unctuosus*, Transvaal, MÖNNIG J. South Afric. Vet. Med. Ass. 4 1933 pp. 21-23.

Skrjabinofilaria pricei sp. n. in subcutaneous tissue of *Didelphys aurita*, Brazil, VAZ & PEREIRA J. Washington Acad. Sc. 24 1934 pp. 54-55 fig. 1.

Stephanofilaria stilesi sp. n. in skin of cattle, United States, CHITWOOD North Amer. Vet. Chicago 15 vi 1934 pp. 25-27 5 figs., DIKMANS t.c. pp. 22-25 1 fig. 1 pl.

Tetracheilonema quadrilabiatum (Molin) in abdominal cavity of *Nothura maculosa* and *Rhynchotus rufescens*, South America, VAZ Ann. Trop. Med. Parasit. Liverpool. 28 1934 pp. 21-24 6 figs.

DRACUNCULIDAE.

Avioiserpens gen. n. Dracunculidae, *denticulophasma* sp. n. in a white heron (*Casuarodius* or *Egretta*) and *Anhinga*

anhinga, under mucous membrane of mouth and pharynx, N. America, WEHR & CHITWOOD Proc. Helminth. Soc. Washington 1 1934 pp. 10-11.

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Dracunculoidea [superfam. nom. n. ?] CAMERON Internal Parasites of Domestic Animals, London 1934 p. 69.

Dracunculus fueleborni sp. n. in subcutaneous connective tissue of *Didelphis aurita*, Brazil, TRAVASSOS Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 235-238 pls. xxxviii-xl.

Oshimaia gen. n. Philometridae, type *Filaria taiwana* Sugimoto 1919 in subcutaneous tumours of ducks, Formosa, SUGIMOTO J. Japan. Soc. Vet. Sc. Tokyo 13 1934 pp. 261-262 figs. 1-5.

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Trichuroidea.

TRICHURIDAE.

Capillaria appendiculata in large intestine of *Phalacrocorax brasiliensis* p. 1195 figs. 5, 6, *brasiliensis* in intestine of *Nycticorax naevius* p. 1196 figs. 7, 8. spp. n., Brazil, TEIXEIRA DE FREITAS C.R. Soc. Biol. Paris 114 1933 pp. 1195-1197 4 figs.—*C. lophortygis* sp. n. in crop of Californian quail (? *Lophortyx californica*), Queensland, BAYLIS Parasitol. Cambridge 26 1934 pp. 131-132 fig. 3.—*C. vespertilionis* (Rud.) in *Nyctalus noctua* p. 239, *diesingii* (Kol.) in *Myotis murinus* p. 240, *speciosa* (Ben.) in *Myotis* spp. *Eptesicus serotinus* and *Vespertilio murinus* p. 240, *pusilla* Trav. in *Sturnira lilium* p. 241 pl. xli figs. 1, 2, *pintoii* sp. n. in bats p. 241 pl. xli figs. 3-5, xlii fig. 6, *pulchra* sp. n. in stomach of *Nyctinomus brasiliensis* p. 242 pl. xlii fig. 7, xliii figs. 11, 12, *angrense* sp. n. in intestine of *Molossus rufus* pp. 243-244 pl. xlii figs. 8, 9, xliii fig. 10, Brazil, TEIXEIRA DE FREITAS Mem. Inst. Oswaldo Cruz 28 1934.—*C. rudolphii* sp. n. in intestine of *Tinamus solitarius*, Brazil, FREITAS Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 259-261 pl. xlviii.—*C. cesarpintoii* sp. n. in stomach and intestine of snake,

Leimadophis poecilogyrus, Brazil, FREITAS & LENT Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 263-266 pl. xlix.—*C. amarali* sp. n. in intestine of *Liophis miliaris miliaris*, Brazil, FREITAS & LENT Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 271-272 pl. liii.—*C. bursata* sp. n. in intestine of *Gallus domesticus*, Brazil, FREITAS & ALMEIDA Mem. Inst. Oswaldo Cruz Rio de Jan. 28 1934 pp. 273-274 pls. liv-lv.

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Diectophymoidea.

DIECTOPHYMIDAE.

Eustrongylides formosensis sp. n. in gizzard of buff-backed heron, *Bubulcus ibis coromandus*, Formosa, SUGIMOTO J. Jap. Soc. Vet. Sc. 12 1933 pp. 35-39 pls. ii, iii.

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Soboliphyme sp. nov. in on gastric mucosa of *Martes zibellina*, Saghalien Is., SHIMAKURA Proc. Imp. Acad. Tokyo 10 1934 pp. 187-190 2 figs.—*S. sahalinensis* sp. n. in *Martes zibellina sahalinensis*, Siberia, SHIMAKURA & ODAJIMA Trans. Sapporo Nat. Hist. Soc. 13 iii 1934 pp. 341-350 2 figs. pl. x.

Incertae sedis.

DRILONEMATIDAE.

Dicelis nira sp. n. in gonads of earthworm, *Helodrilus caliginosus*, Maryland, United States, CHITWOOD & LUCKER Proc. Helminth. Soc. Washington 1 1934 p. 39 fig. 14.

NEMATOMORPHA.

Nematomorpha of North Sea and Baltic regions, STEKHOFEN in GRIMPE & WAGLER Tierwelt Nord- Ostsee 6f 1934 10 pp. 6 figs. [Lief. 26.]

GORDIIDAE.

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Gordius villoti Rosa, Trentino, pp. 243-245 fig. 5, *Zammaranoi*, Somaliland, fig. 2, *Parisii*, Trentino, p. 245 fig. 3, *valgannensis*, Lombardy, p. 246 fig. 4 spp. n., SCIACCHITANO Atti. Soc. ital. Milan 71 1933.—*G. longiformis* sp. n. (= *G. longissimus* Römer of Heinze), Hamburg Mus., HEINZE Zool. Anz. Leipzig 106 1934 pp. 189-190 fig. 1.—*G. amoyensis* pp. 201-203 figs. 1, 2, *foochowensis* pp. 203-206 figs. 3, 4, *polychaetus* pp. 206-208 figs. 5, 6, spp. n. Fukien, China, TANG Sinensia Nanking 4 1934.

CHORDODIDAE.

Parachordodes Ciferrii sp. n. Haiti, SCIACCHITANO Atti Soc. ital. Milan 71 1933 p. 242 fig. 1.

ACANTHOCEPHALA.

ECHINORHYNCHIDAE.

Echinorhynchus sevani sp. n. in intestine of *Salmo ischchan*, Lake Sevan, Armenia, DINNIK Rep. lim. Sta. Lake Sevan Erivan 4 1933 pp. 119-124 figs. 10-14.

Centrorhynchus maryasis sp. n. in intestine of *Urocissa melanocephala occipitalis*, India, DATTA Rec. Ind. Mus. Calcutta 35 1933 pp. 325-330 pl. vii.

Corynosoma semerme (Fors.) in (?) stomach of *Phoca hispida* pp. 186-187 figs. 2, 3, *wegeneri* sp. n. in intestine of *Phoca hispida* pp. 188-189 figs 4-7, Greenland, HEINZE Wiss. Ergebn. Deutsch. Grönland Exped. Leipzig 6 1934.

RHADINORHYNCHIDAE.

Gorgorhynchus gen. n. type *Echinorhynchus* (*Rhadinorhynchus*) *medius* Linton p. 355, *gibber* sp. n. pp. 355-357 pl. xiv figs. 6, 7 in catfish, *Galeichthys felis*, Gulf of Mexico, CHANDLER Parasitology Cambridge 26 1934.

Nipporhynchus gen. n. type *Rhadinorhynchus katsuwonis* Harada 1928, CHANDLER Parasitology Cambridge 26 1934 p. 355.

Rhadinorhynchus tenuicornis v. Cl. in *Micropogon undulatus* and *Leiostomus xanthurus*, Galveston Bay, Texas, with revision of genus, CHANDLER Parasitology Cambridge 26 1934 pp. 354-355 pl. xiv figs. 1-4.—*R. selkirkii* v. Cleave syn. of *R. pristis*, *katsuwonae*

and (?) *ornatus* assigned to genus *Nipporhynchus*, *medius* to genus *Gorgorhynchus* and *wheeleri* and *johni* to genus *Aspersentis*, CHANDLER Parasitology Cambridge 26 1934 pp. 352-358.—*R. meyeri* sp. n. in *Scomber pelamys*, Indian ocean, HEINZE Zool. Anz. Leipzig 108 1934 pp. 255-256 4 figs.

CHAETOGNATHA, GASTRO-TRICHA, ROTIFERA.

SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

Technique.—Methods of collecting Rotifers, MYERS, 987.

STRUCTURE.

Morphology.—Morphology of *Neogosseae*, BEAUCHAMP, 124; General morphology of *Linda tecusa*, DEHL, 352.

Corona radiata.—Structure and functions of corona ciliata in *Spadella*, REISINGER, 1140.

PHYSIOLOGY.

Constitution.—Fatty constituents of marine Chaetognatha, GUNTHER, 577.

Degeneration.—Degeneration phenomena in *Anuraea*, MILKOVIĆ, 945.

REPRODUCTION.

Sexual forms.—Male forms of lake shore Rotifers, Poland, WISZNIEWSKI, 1498.

ETHOLOGY.

Bionomics.—Ethology of *Neogosseae*, BEAUCHAMP, 124; Ecology of pond rotifers in the Norfolk Broads, HURRELL 688; Biological notes on some Roumanian Rotifers, LEPSI, 825; Bionomics of North Sea brackish water Rotifers, REMANE, 1143; Bionomics of fresh-water Rotifers, India, SEWELL, 1233;

Tube-building *Melicerta* spp., SHEP-HARD, 1234; Rotifers in tropical plant ponds, THIENEMANN, 1362; Bionomics of lake littoral Rotifers, WISZNIEWSKI, 1499; Biology of Rotifera and Gastrotricha in St. Joseph river, N. America, DOLLEY, 389; Biology of Gastrotricha and Rotifera in thermal baths, Carinthia, STROUHAL, 1308.

Limnology.—Limnology of freshwater Rotifers, Finland, JÄRNEFELT, 710, 711.

Seasonal distribution.—Local and seasonal distribution of freshwater Rotifers, Ohio, AHLSTROM, 9; Seasonal and local distribution of Rotifers in Chiemgau lakes, Germany, AURICH, 72; Winter Rotifer fauna of Japanese volcanic lakes, INABA, 693.

Symbiosis, parasitism.—Rotifer parasites of turf moss, BUDDÉ, 194; *Drilophaga bucephalus* parasitic on *Lumbriculus*, Poland, PAWLOWSKI, 1067; New *Pterodina* sp. in the gill-chambers of a river crab, SCHEER, 1192.

FAUNAS, DISTRIBUTION.

Europe.—Plankton Chaetognatha in the Kara Sea, BERNSTEIN, 140; Gastrotricha of Germany, REMANE, 1141; Gastrotricha in the benthon microfauna of Kiel Bay, REMANE, 1142; Rotifers in the Windermere littoral, MOON, 964; Rotifera of Hitchin district, PALMER, 1057; Rotifer fauna of Hohen Tauern, Germany, BREHM, 173; Rotifer plankton, Lake Glumke, Prussia, LUCKS, 855; Rotifera of Germany, REMANE, 1141; Rotifers from Sweden, ALLGÉN, 22; Pond and lake Rotifers, Southern Sweden, ALLGÉN, 31; New Rotifer records, Sweden, CARLIN-NILSSON, 229; Pelagic Rotifers, Lake of Montcalvens, Switzerland, ANDRÉ, 44; Rotifer fauna of some alpine lakes, PIROCCHI, 1091; Plankton Rotifers, Lucerne, STEINMANN & SURBECK, 1286; Rotifers of brooks, Hungary, GEBHARDT 515; Rotifers in Hungarian springs, GEBHARDT, 516; Cavernicolous Rotifers, Hungary, GEBHARDT, 517; New records of Rotifers, Hungary, VARGA, 1421; Rotifers of Hungarian moors, VARGA, 1422; Two new Rotifers described by Wiszniewski, Poland, SCHEFFELT, 1193; Sand Rotifers, Poland, WISZNIEWSKI, 1497; Plankton

Rotifers of Lake Petrowski, Russia, BRJUCHATOVA, 175; Plankton rotifiers, Black Sea, LEPSI, 827; Rotifer fauna of Esthonia, RIIKOJA, 1153.

Asia.—Chaetognatha, Pe-Chi-li, SCHODDUYN & LEROY, 1207; Freshwater Rotifers, Japan, UENO, 1403; Plankton Rotifers of Iturup lakes, Japan, UENO, 1405; Plankton Rotifers, Island of Etorofu, Japan, UENO, 1406; Rotifers found in limnological survey of Lake Busyu, Japan, YOSHIMURA, 1529; Plankton Rotifers of the coast of Pe-Chi-li, China, SCHODDUYN & LEROY, 1207; Rotifer fauna of salt lakes, Calcutta, SEWELL, 1232; Plankton Rotifers of the Murman coasts, RETOWSKI, 1148; New Rotifers, Turkestan, MURAVEISKII, 981.

North America.—Rotifers of Florida, AHLSTROM, 10; New Rotifers, Mount Desert Island, N. America, MYERS, 984-987; Plankton rotifers, Lake Winnipeg area, BAJKOV, 88; Marine Rotifers, British Columbia, WAILES, 1452.

West Indies.—New lake Rotifers, Haiti, EDMONDSON, 415.

South Sea Islands.—Lake Rotifers in the South Sea Islands, HADA, 579.

Arctic.—Arctic Rotifers from the "Sedow" and "Lomonossow" expeditions, SMIRNOW, 1248.

Antarctic.—Chaetognatha of the German Antarctic Expedition, 1911, BOLLMAN, 153.

SYSTEMATIC.

CHAETOGNATHA.

Eukrohnia hamata Möb. and *E. fowleri* Ritt.-Zah., German Antarctic Exped. 1911 BOLLMAN Int. Rev. Hydrobiol. Leipzig. 30 1934 pp. 262-265.

Krohnitta subtilis (Grassi), German Antarctic Exped. 1911, BOLLMAN Int. Rev. Hydrobiol. Leipzig 30 1934 pp. 272-274, 304 fig. 9.

Pterosagitta draco (Krohn), German Antarctic Exped. 1911, BOLLMAN Int. Rev. Hydrobiol. Leipzig 30 1934 pp. 270-272, 304 fig. 8.

Sagitta planctonis Q.G. pp. 278, 298 fig. 1, *macrocephala* Fowler pp. 280, 299, *bipunctata* Q.G. pp. 269, 299, *serratodentata* Krohn pp. 258, 300 fig. 2, *decipiens* Fowler pp. 260, 300 figs. 3, 4, *minima* Grassi pp. 267, 304, *hexaptera* Orb. pp. 274, 301, *tyra* Krohn pp. 276, 302, *gazellae* Ritt.-Zah. pp. 276, 302, *enflata* Grassi pp. 265, 304, German Antarctic. Exped. 1911, BOLLMAN Int. Rev. Hydrobiol. Leipzig 30 1934.

GASTROTRICHA.

NEOGOSSEIDAE.

Neogosseia antennigera de Relans figs. 1, 2, *fasciculata* Daday figs. 3-5, morphology and ethology, DE BEAUCHAMP Bull. Soc. zool. Fr. 58 1934, pp. 331-342.

ROTIFERA.

Notommatoidea.

DICRANOPHORIDAE.

Dicranophorus leptodon sp. n. p. 359 pl. lix figs. 30-32, *lütkeni* (Bergendal) p. 359 figs. 28, 29, *hercules* Wisz. pp. 360-362 pl. lx figs. 33-38 Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934.—*D. lütkeni* (Bergendal) p. 146 fig. 4, *capucinoides* Wisz. p. 146 fig. 5, male forms, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934.

Encentrum diglandula (Zawadowsky) p. 147 fig. 6, *velox* Wisz. p. 148 fig. 7, male forms, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934.

Erignatha belodon Harring and Myers transferred to *Myersina* gen. n., WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 p. 363.

Myersina gen. n. Dicranophorinae, *tetraglena* sp. n. Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 pp. 363-364 pl. lx figs. 39-41.

Wierzejskiella gen. n. Dicranophorinae p. 360, *velox* (Wisz.) pp. 367-369 pl. lxi figs. 46-50, *sabulosa* (Wisz.) pp. 369-371 figs. 51-54, Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934.

LINDIIDAE.

Lindia janickii sp. n. Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 pp. 356-358 pl. lix figs 24-26.—*L. tecusa*, morphology, DEHL Z. wiss. Zool. Leipzig 145 1934 pp. 169-219 35 figs.

NOTOMMATIDAE.

Cephalodella doryphora pp. 2-3 fig. 1, *tachyphora* pp. 3-4 fig. 2, *mucosa* p. 4 fig. 3, *euknema* p. 5 fig. 4, *dorystoma* p. 5 fig. 5, *mira* pp. 6-8 fig. 6, *eurynota* p. 8 fig. 7, *ablusa* p. 8 fig. 8, *stricta* p. 9 fig. 9, *lepida* p. 10 fig. 10, *poitera* p. 10 fig. 11, *akrobeles* p. 11 fig. 12, *praelonga* p. 12 fig. 13, *abstrusa* p. 13 fig. 14 spp. n. Mount Desert Island, MYERS Amer. Mus. Novit. 699 1934.—*E. catellina* (Müller) pp. 345-347, pl. lviii figs. 6, 7, *tachyphora* Myers p. 349 figs. 8-10, *compacta* sp. n. p. 351 figs. 11, 12, *megalotrocha* sp. n. p. 352 figs. 13-15, *remanei* sp. n. p. 353 pl. lix figs. 17-21 Lake Wigry, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934.—*C. gibba* (Ehrenb.) p. 145 fig. 2, *auriculata* (Müller) p. 145 fig. 3, male forms, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934.

Drilophaga bucephalus Vejd. parasitic on *Lumbriculus variegatus*, Poland, PAWLOWSKI Mém. Acad. Polon. Cracow Class. Sc. Math. Nat. B 1934 pp. 95-104 3 figs.

Furcularia gammari Plate, Hungary, VARGA Állat. Közlem. Budapest 29 1932 p. 180.

Monommata astra Myers, Lake Wigry, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 p. 356 pl. lix fig. 23.

Wigrella depressa Wisz., Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 pp. 372-374 pl. lxi figs. 55-57.

SYNCHAETIDAE.

Ploesoma formosum sp. n. Mount Desert Island, MYERS Amer. Mus. Novit. 700 1934 pp. 4-7 figs. 2-4.

Synchaeta grandis Zach. p. 172, *stylata* Wierz. pp. 173-174, Hungary, VARGA Állat. Közlem. Budapest 29 1932.—*S. kamera* Smirnov p. 81 figs. 1-3, *bacillifera* sp. n. p. 85 figs. 4-11, Arctic, SMIRNOW Trans. Arctic Inst. Leningrad 8 1933.

TRICHOERCIDAE.

Diurella intermedia (Stenroos) p. 375 pl. lxii figs. 58, 59, *taurocephala* Hauer p. 376 figs. 60-63, *pygocera* Wisz. p. 377 figs. 64-68, Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934.—*D. taurocephala* Hauer, male, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934 p. 148 fig. 8.

Elosa spinifera Wisz., Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 pp. 374-380 pls. lxii, lxiii figs. 69-73.

Trichocerca stylata Gosse, Hungary, VARGA Állat. Közlem. Budapest 29 1932 p. 176.—*T. marina* (Daday), Arctic, SMIRNOW Trans. Arctic Inst. Leningrad 8 1933 p. 89 figs. 13-14.—*T. platessa* pp. 7-10 figs. 5, 6, *ornata* pp. 10-12 fig. 7, spp. n., Mount Desert Island, MYERS Amer. Mus. Novit. 700 1934.

Brachionioidea.

BRACHIONIDAE.

Anuraeopsis fissa Gosse, Hungary, VARGA Állat. Közlem. Budapest 29 1932 p. 175.

Brachionus angularis var. *dolabratus* (Harring) p. 255 pl. xxv fig. 9, *polyacanthus* var. *micracanthus* (Arévalo) p. 255 pl. xxv fig. 3, *zahniseri* sp. n. p. 256 pl. xxv figs. 1, 2, Florida, AHLSTROM Trans. Amer. Micr. Soc. Menasha 53 1934.—*B. urceolaris* var. *Bakeri* var. n. Orenburg, MURAVEISKII Trans. sci. Soc. Turkestan Tashkent 1 1923 p. 270 fig. 1.

Colurella logima pp. 14-16 fig. 12, *aemula* p. 16 fig. 13 spp. n. Mount Desert Island, MYERS Amer. Mus. Novit. 700 1934.—*C. colurus* (Ehrenb.), male, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934 p. 152 fig. 13.

Diplax bisulcata Lucks, Sweden, CARLIN-NILSSON Ark. Zool. Stockholm 26A xxii 1934 p. 11 fig. 6.

Lepadella myersi sp. n. Haiti, EDMONSON Arch. Hydrobiol. Leipzig 26 1934 pp. 467-469 fig. 2.—*L. latusinus* (Hilg.) p. 259 pl. xxvi fig. 9, *heterostyla* (Murray) p. 259 fig. 10, *salisburyi* sp. n. pp. 259-260 fig. 8, Florida, AHLSTROM Trans. Amer. Micr. Soc. Menasha 53 1934.—*L. patella* (Müller), male, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934 p. 153

fig. 14.—*L. bractea* p. 2 figs. 1-3, *venefica* pp. 2-4 figs. 4-6, *longiseta* p. 4 figs. 7-9, *triba* p. 4 figs. 10-12, *akroboles* p. 5 figs. 13-15, *apsicora* p. 5 figs. 16-18, *xenica* p. 7 figs. 22-24 *visenda* p. 8 figs. 25-27 spp. n., *latusinus* var. *americana* p. 7 figs. 19-21, *triptera* var. *alata* p. 10 figs. 28-30 varr. n. Mount Desert Is., N. America, MYERS Amer. Mus. Nov. New York 760 1934.

Macrochaetus multispinosus p. 12 figs. 9, 10, *longipes* pp. 13-14 fig. 11 spp. n. Mount Desert Island, MYERS Amer. Mus. Novit. 700 1934.

Notholca intermedia sp. n. Orenburg, MURAVEISKII Trans. sci. Soc. Turkestan Tashkent 1 1923 p. 271 fig. 4.

Rhinoglena frontalis Ehrbg., Hungary, VARGA Állat. Közlem. Budapest 29 1932 pp. 169-172 figs. 1, 2.

Squatinella lamellaris (O. F. M.), Sweden, CARLIN-NILSSON Ark. Zool. Stockholm 26 A xxii 1934 pp. 1-2 fig. 1.

Trichotria eukosmeta sp. n. Mount Desert Is., N. America, MYERS Amer. Mus. Nov. New York 761 1934 p. 6 figs. 13, 14.

EUCHLANIDAE.

Dapidia carinata p. 6 fig. 2, *lata* p. 7 fig. 3 spp. n., Sweden, CARLIN-NILSSON Ark. Zool. Stockholm 26A xxii 1934.

Euchlanis triquetra var. *mucronata* var. n. Florida, AHLSTROM Trans. Amer. Micr. Soc. Menasha 53 1934 p. 258 pl. xxv figs. 4, 5.

LECANIDAE.

Brycella tenella (Bryce) in sand, Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 pp. 343-344 pl. lviii figs. 2-5, male form, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934 p. 144 fig. 1.

Lecane sp. p. 150 fig. 11, *clara* (Bryce) p. 149 fig. 9, *levistyla* (Olofsson) p. 150 fig. 10, male forms, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934.—*L. scobis* Harr. & Myers syn. of *L. levistyla* Olofsson, RETOWSKI Trans. Arctic Inst. U.S.S.R. 3 ii 1933 p. 28.—*L. matsuluensis* sp. n. Esthonia, RIIKOJA SitzBer. naturf. Ges. Tartus 40 1933 pp. 170-172 fig. 1.—*L. bondi* sp. n. Haiti, EDMONSON Arch. Hydrobiol. Leipzig 26 1934 pp. 466-467 fig. 1.—*L. clara* (Bryce) p. 381 figs. 74, 75, *levistyla* (Olofsson) p. 382

figs. 76, 77, Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934.—*L. sverigis* sp. n. Florida, AHLSTROM Trans. Amer. Micr. Soc. 53 1934 p. 258 pl. xxv figs. 7, 8.—*L. punctata* sp. n. p. 9 fig. 4, *tudicola* Harding & Myers p. 10 fig. 5, Sweden, CARLIN-NILSSON Ark. Zool. Stockholm 26 A xxii 1934.

Monostyla crenata Harring, Esthonia, RIIKOJA SitzBer. naturf. Ges. Tartus 40 1933 pp. 172–173 fig. 2.—*M. spinifera* sp. n. p. 469 fig. 3, *rotunda* Fadeew p. 469 fig. 4, Haiti, EDMONSON Arch. Hydrobiol. Leipzig 26 1934.—*M. psammophila* Wisz., Poland, WISZNIEWSKI Ann. Mus. Zool. Polon. 10 1934 p. 384 figs. 78, 79.—*M. psammophila* Wisz., male, WISZNIEWSKI Mém. Acad. Polon. Cracow 1934 p. 151 fig. 12.—*M. punctata* Murray p. 262 pl. xxvi figs. 1–3, *harringi* sp. n. p. 263, *stenroosi* Meissner p. 264 figs. 4, 5, *thalera* Harring & Myers p. 264 figs. 6, 7, Florida, AHLSTROM Trans. Amer. Micr. Soc. Menasha 53 1934.

Proales minima (Montet) in sand, Poland, WISZNIEWSKI Ann. Mus. zool. polon. 10 1934 p. 342 pl. lviii fig. 1.

Asplanchnoidea.

ASPLANCHNIDAE.

Asplanchnopus dahlgreni sp. n. Mount Desert Island, MYERS Amer. Mus. Novit. 700 1934 pp. 1–4 fig. 1.

Testudinelloidea.

TESTUDINELLIDAE.

Testudinella bidentata Tern. pp. 177–178 fig. 3, *reflexa* Gosse p. 179, *mucronata* Gosse p. 179, Hungary, VARGA Állat. Közlem. Budapest 29 1932.—*T. angulata* p. 1 figs. 1, 2, *triangularis* p. 2 figs. 3, 4, *epicopia* p. 2 figs. 5, 6, *dentata* p. 4 figs. 7, 8, *ovata* p. 5 figs. 9, 10, *dicella* p. 5 figs. 11, 12, spp. n. Mount Desert Is., N. America, MYERS Amer. Mus. Nov. New York 761 1934.

Melicerioidea.

PTERODINIDAE.

Pterodina flava sp. n. in branchial chamber of river crab, SCHEER Arch. Hydrobiol. Stuttgart 27 1934 pp. 268–270 figs. 1, 2.

ANNELIDA, GEPHYREA, CONODONTA, PROBLEMATICA.

SUBJECT INDEX.

GENERAL AND COMPREHENSIVE.

Monographs.—Monograph on Echiuroidea, BALTZER, 95; Hirudinea in Kükenthal and Krumbach's Handbuch der Zool., SCRIBAN & AUTRUM, 1229.

Classification, nomenclature.—Revision of Enchytraeidae, ČERNOSVITOV, 247, 248; Synonymy of Enchytraeids, ČERNOSVITOV, 252; Specific characters of Syllids, FAUVEL, 445; New genus for *Bonellia mirakiensis*, ONODA, 1039.

Museum collections.—Polychaeta and Hirudinea in the Buitenzorg Zoological Museum, Java, AUGENER, 67; Polychaetes from Leiden and Amsterdam museums, AUGENER, 68, 69; Earthworms in Indian Museum, GATES, 513; Opisthopore Oligochaetes in the natural history museum, Brussels, MICHAELSEN, 943.

Technique.—Collecting technique for annelids, SCHÖMMER, 1209.

Obituary.—J. Stephenson, C[ALMAN], 217, P—, 1052.

STRUCTURE.

Morphology.—Anatomy of *Marphysa gravelyi*, AIYAR, 11; *Lumbricus terrestris*, structure and habits, ANDERSSON, 43.

Alimentary system.—Buccal organ in Enchytraeids, HRABĚ, 669; Alimentary glands in *Eutyphoeus*, THAPAR, 1360; Accessory sucking organ in Enchytraeid, *Achaeta bohemica*, VEJDOWSKÝ, 1427.

Nervous system.—Enumeration of ganglion cells and nerve fibres in *Pheretima*, OGAWA, 1013; Nervous system of earthworm, PROSSER, 1118.

Circulatory system.—Coelomic corpuscles of *Drawida hattamimizu*, OHUYE, 1015; Vascular system of *Aricia foetida*, TIMOFEEV, 1376.

Excretory system.—Significance of enteronephric nephridial system in Indian earthworms, BAHL, 87; Cytology of nephrostome of *Lumbricus*, HIBBARD, 625; Excretory organs in Polyodontidae, PFLUGFELDER, 1080.

Reproductive organs.—Reproductive system and segmental organs in *Tialassema bombayensis*, AWATI & DESHPANDE, 76; Interstitial tissue of testes and vesiculae in *Lumbricus*, STEVE & BEYKIRCH, 1300.

Appendages.—Structure of Nereid parapodia, GRAVIER, 570; Structure of tentacles of *Terebella magnifica*, WELSH, 1476.

Glands.—Spinneret glands in Polyodontidae, PFLUGFELDER, 1080.

PHYSIOLOGY.

Environmental effects and reactions to stimuli.—Reactions to tactile stimuli in *Nereis virens*, COPELAND & BROWN, 310; Effects of radium radiation on *Euratella*, STONE, 1303; Reactions of tentacles of *Terebella magnifica* to various stimuli, WELSH, 1476, 1477; Reactions of *Lumbricus* and *Allolobophora* to bacterial inoculation, GIANFERRARI & CANTONI, 523; Variation in weight of Lumbricids in relation to environment, MOSZYŃSKI, 973; Experiments with *Tubifex* in various media, WEBER, 1469; Response to electric stimuli in leech, MILLER, 947.

Alimentation.—Alimentation of some Polychaetes, BÖHNKE, 152; Digestive ratio of marine Polychaeta, EDGE, 414; Lipatic ferments of *Hirudo* and *Haemopsis*, AUTRUM & GRAETZ, 74; Measurement of sucking power of *Hirudo medicinalis*, GRAETZ, 565.

Absorption.—Absorption of methylene blue by nephridium of earthworm, COLE, 302.

Respiration.—Oxyphoric potentiality of oxychlorocruorin in *Spirographis*, FOX, 472; Accessory respiratory ferments in a Polychaete, FRIEDHEIM, 490; Localization of respiratory exchange in Polychaete, *Bispira*, ZOOND, 1537; Oxygen-consumption of *Lumbiculus* and *Rhynchelmis*, LANG, 806; Factors influencing respiratory metabolism in *Hirudo*, HJESTRAND & SINGER, 628.

Circulation.—Blood calcium content in earthworm, AOKI, 56; Haemoglobin disintegration in *Nephthys*, RAPHAËL, 1128; Physico-chemical properties of chlorocruorin in *Spirographis spallanzanii*, ROCHE, 1163; Action of intravital stains and nitro-phenols on blood corpuscles of sipunculids, CHAPHEAU, 257.

Phagocytosis.—Phagocytosis of sarco-lytes of longitudinal muscles in *Nereis*, DEHORNE, 353.

Pigments.—Nature of the subcutaneous muscle porphyrin in *Lumbricus terrestris*, SCHMIDT, 1205.

Excretion.—Histophysiological investigation of the nephridia of *Lumbricus*, CORDIER, 312.

Movement.—Movement regulation of parapodial cilia in *Nephthys buccera*, COONFIELD, 309; Effect of temperature change on locomotion in leech, MILLER, 948.

Neuro-muscular functions.—Impulses in giant nerve fibres of earthworms, ECCLES, GRANIT & YOUNG, 410; Correlation between behaviour and neuromuscular differentiation in embryos of *Eisenia*, PROSSER, 1116; Effect of central nervous system on light responses in *Eisenia*, PROSSER, 1117; Chromaphilic nerve ganglion cells in leeches, VIALLI, 1434.

Physiological constitution.—Fatty constituents of marine Polychaeta, GUNTHER, 507; Estimation of organic content of Polychaetes in marine sediment, HECHT, 613; Carotinoid substances in Polychaeta and Gephyrea, LÖNNBERG, 817; Peptide content of *Urechis caupo*, LINDERSTRØM-LANG, 840.

Functional coordination.—Functional unity in Lumbricids, COUTEAUX, 318.

Phosphorescence.—Phosphorescence of *Odontosyllis hyalina* in the Bay of Batavia, LUMMEL, 859.

REPRODUCTION AND DEVELOPMENT.

Regeneration.—Cause of formation of normal and reversed regenerates in *Lumbriculus*, CARPÉ, 228; Regeneration experiments on embryos and young

of *Tubifex rivulorum*, CHEN, 265; Organogenetic impetus in regeneration in *Sabella*, HUXLEY & GROSS, 691; Regeneration of the head in polychaet, *Myxicola aesthetica*, OKADA, 1021; Regeneration in *Clymenella torquata*, SAYLES, 1187; Effects of x-rays on posterior regeneration in *Lumbriculus*, TURNER, 1402; Effects of x-rays on reconstitution in oligochaetes, *Dero* & *Pristina*, VAN CLEAVE, 1412; Significance of mesoderm elements in regeneration in *Rhynchelmis limosella*, ZHINKIN, 1535; Effect of x-rays on regeneration in *Lumbriculus variegatus*, ZHINKIN, 1536; Regeneration of the proboscis in *Phascolion strombi*, SCHLEIP, 1197; Regeneration in *Phascolosoma minutum*, SCHLEIP, 1198.

Oogenesis, Fertilization.—Electrokinetic phenomena in ova of *Nereis limbata*, DAN, 339; Mitotic and viscosity changes in eggs of *Nereis*, FRY & PARKS, 495; Pulsation in egg of *Nereis*, HOADLEY, 632; Egg-laying of *Arenicola marina* on the Belgian coast, PIRLOT, 1089; Bipolar differentiation of oocytes of *Nereis* and *Chaetopterus*, SPEK, 1252; Reproduction, prematuration and fertilization in *Sabellaria vulgaris*, WATERMAN, 1468; "Selective" egg-formation in *Stylaria lacustris*, STOLTE, 1302; Polarity of eggs in *Urechis caupo*, HOLT, 656.

Development, Morphogenesis.—Development of *Scolecoplepis fuliginosa*, DAY, 349; Influence of nutrition on growth of division zone in *Stylaria*, ECKERT, 411; Morphodynamics in Polychaeta, MEYER, 936; Morphogenesis in *Myzostoma* and *Chaetopterus*, PASTEELS, 1064; Experimental investigations on the destruction of the teloblasts in *Tubifex* at different developmental stages, PENNERS, 1073; Ontogenesis of intestinal epithelium in limicolous oligochaetes, PENNERS, 1075; Organogenesis of Oligochaete nephridial system, with special reference to *Eisenia foetida*, VANDEBROEK, 1415; Growth of gonads in *Glossiphonia*, WENDROWSKY, 1478.

Sexual forms.—Male *Bonellia* larvae, BALTZER, 94; Male-determining effect of female intestinal extract on larvae of *Bonellia*, NOWINSKI, 1008; Sex-differentiation in *Bonellia*, SILVA, 1240.

Asexual reproduction.—Effects of radium emanations on asexual reproduction in Nais, RAHM, 1123; Asexual reproduction in two new Japanese Syllids, OKADA, 1019.

Metamorphosis.—Relation of substratum to metamorphosis of *Scolecoplepis fuliginosa*, DAY & WILSON, 350.

Sperm resorption.—Sperm resorption in Oligochaeta and Hirudinea, ČERNOSVITOV, 244.

Germinal lineage.—Germinal lineage in *Salmacina Dysteri*, MALAQUIN, 889; Experimental demonstration of origin of reproductive elements in *Tubifex*, PENNERS, 1074.

Stolonisation.—Formation of the head during stolonisation in Syllids, OKADA, 1022.

Reproduction, general.—Reproduction in *Haementeria officinalis*, KRAUSE & WILKE, 776.

ETHOLOGY.

Bionomics.—Larval Polychaets in plankton, Kara Sea, BERNSTEIN, 140; Biological and faunistic notes on *Miroserpula inflata*, Norway, DONS, 396, 397; *Arthraria*-like fossil markings made by Annelids, FENTON & FENTON, 449; Life history of Pacific *Nereis* sp., GUBERLET, 575; Bionomics of "Palolo" worm, MEER MOHR, 921; Chalk-formation by fossil Serpulids, PIA, 1081; Habits of Japanese species of *Arenicola*, TAKAHASHI, 1333; Epitocous phase of *Perinereis nuntia*, TAKAHASHI, 1334; Biology of Oligochaeta in St. Joseph river, N. America, DOLLEY, 389; Duration of life of earthworms in water and pure gases, NAGANO, 989; Brackish water Oligochaetes, Florida, PEARSE, 1071; Ecology of lake oligochaetes and leeches, British Columbia, RAWSON, 1132; Ecology of Oligochaetes and leeches in Ontario streams, RICKER, 1150; Biology of earthworms and leeches in thermal baths, Carinthia, STROUHAL, 1308; Experiments on control of water leech, *Hirudinaria*, Philippines, DE JESUS, 356; Bionomics of *Haemadipsa zeylanica*, JUTTING, 730; Habits of *Myxobdella sinanensis*, OKA, 1018;

Abundance, habitats, breeding and distribution of North Sea Gephyrea, STEPHEN, 1291; Bionomics of brackish water Chaetopods, REMANE, 1143; Annelids in tropical plant ponds, THIENEMANN, 1362.

Commensalism.—New Syllid variety, associated with a sponge, Japan, OKADA, 1020; *Spirorbis spirillum* commensal on pycnogonid, Japan, OKUDA, 1030; Polychaeta inhabiting sponges, Florida, PEARSE, 1070; Discodrilid *Cambarincola* on eyed crayfish, Mammoth cave, N. America, GIOVANNOTTI, 528.

Economics.—Polychaet spp. used as bait in Japan, OKUDA, 1025; Economic importance of Gephyrea, STEPHEN, 1291.

ETIOLOGY.

Variation.—Transformation of species under natural and artificial environmental conditions, HARMS, 601; Comparison of *Limnatis granulosa* from Formosa and from Martinique, OKA, 1016; Morphological variation in *Pheretima* sp., TAKAHASHI, 1335.

Phylogeny.—Zoological relation of the Conodonta to Annelida, SCOTT, 1226.

FAUNAS, DISTRIBUTION.

Europe.—Annelids of Hitchin district, PALMER, 1057; Oligochaete fauna of Lancashire and Cheshire, FRIEND, 492; Oligochaetes and leeches in the Windermere littoral, MOON, 964; Echiuridae, Sipunculidae and Priapulidae of Scottish waters, STEPHEN, 1291; New Polychaete records for Roscoff, PRENANT, 1106; New *Pelodrilus* sp. from Lorraine, TÊTRY, 1359; Two new cavernicolous Oligochaetes, Germany, MICHAELSEN, 938; New shore Enchytraeid, Heligoland, MICHAELSEN, 941; Oligochaeta and Hirudinea in the German fauna, REMANE, 1141; Annelida in the benthon microfauna of Kiel Bay, REMANE, 1142; Occurrence of *Hirudo medicinalis* in Central Germany, DATHE, 340; *Haementeria costata* in Brandenburg, MALBRANDT, 890; Lumbricids of Piedmont, COGNETTI DE MARTINI, 300; Oligochaeta occurring in National Park, Piedmont, SCIACCHITANO, 1219; *Stylodrilus heringianus* in glacial lakes, Trentino, SCIACCHITANO, 1223; Distribution of Oligochaetes in

Italy, SCIACCHITANO, 1224; *Mercierella enigmatica* in Sardinia, LINDEG, 839; Oligochaeta and Hirudinea in fauna of Lake Mantova, Italy, GALLICO, 508; Notes on Oligochaete fauna of Poland, MOSZYŃSKI, 971; Limicolous Oligochaetes, Poland, MOSZYŃSKI, 972; *Lumbricus festivus* (Sav.) new to Sweden, BERLIN, 139; *Pygospio elegans* in Finnish waters, RENFORS, 1147; Oligochaeta, Hungary, DUDICH, 406; Oligochaetes in brooks, Hungary, GEBHARDT, 515; Oligochaeta and Hirudinea in Hungarian springs, GEBHARDT, 516; Cavernicolous oligochaetes, Hungary, GEBHARDT, 517; New *Tubifex* sp., Moravia, HRABĚ, 688; New *Psammoryctes* sp. from Moravia, HRABĚ, 671; New cavernicolous Lumbriculid, Herzegovina, HRABĚ, 670; Phosphorescent oligochaete in Czechoslovakian mines, JANDA, 707; Some Balkan leeches, REMY, 1146; Lumbricidae collected in Bulgaria, ČERNOSVITOV, 251; Polychaeta of Black Sea, Rumania, BORCEA, 158, 159.

Asia.—New Polychaeta from Behring Sea, ANNENKOVA, 47; New marine Paraonids, Behring Sea, ANNENKOVA, 48; New *Rhynchelmis*, Lake Baikal, Siberia, BUROW & KOSHOW, 202; New *Styloscolex* spp., Lake Baikal, BUROW, 201; New *Henlea* sp. Siberia, BUROW, 200; Presumably marine Polychaetes in Lake Baikal fauna, BERG, 137; Polychaetes from the Gulf of Pe-Chi-li, China, FAUVEL, 442; Plankton Polychaetes from the coast of Pe-Chi-li, SCHODDUYN & LEROY, 1207; Polychaeta from Tsingtao, China, KOO, 771; Polychaeta from the coast of China, MONRO, 962; Earthworms of lower Yangtze valley, China, CHEN, 266; Syllids from Japan, FAUVEL, 444; Two new Japanese Syllids, OKADA, 1019; Distribution of *Arenicola* spp. in Japan, TAKAHASHI, 1333; New Chaetopterid, Japan, FUJIWARA, 498; Polychaete genus, *Acrocirrus*, in Japanese waters, OKUDA, 1028; Two Japanese species of *Pectinaria*, OKUDA, 1029; New *Marphysa* sp., Japan, OKUDA, 1031; *Priapulius caudatus* in Northern Japan, OKUDA, 1027; Sipunculids and Echiurids from Japan, SATO, 1185; Sipunculoidea, Echiuroidea and Priapuloides, Sôyô-maru expedition, Japan, SATO, 1186; *Arenicola claparedii* in northern Kurile Islands, OKUDA, 1026; Leeches from Kurile Islands, OKA,

1017; New Rhynchobdellid from fish hatchery, Kashmir, BHATIA, 146; New Indian *Hemiclepsis*, CHELLADURAI, 260; Earthworms of Burma, GATES, 512; New Polychaets from Annam, FAUVEL, 443; Polychaeta from the coast of Annam, GRAVIER & DANTAN, 571; Oligochaetes from French Indo-China, MICHAELSEN, 942; New Polychaets from Dutch East Indies, AUGENER, 69; Oligochaeta from Dutch East Indies, MICHAELSEN, 939; New Oligochaeta, Sarawak, MICHAELSEN, 940; New *Panthalis* sp., Philippine Is., HOLLY, 655.

Africa.—New Oligochaete, Algeria, ČERNOSVITOV, 245; New *Dichogaster*, Belgian Congo, MICHAELSEN, 943; Hirudinea from Cirenaica, SCIACCHITANO, 1221.

America.—New Serpulid genus, Florida, TREADWELL, 1391; Two new leeches from Mexico, CABALLERO, 211; New West Indian Polychaetes, TREADWELL, 1390; Polychaeta errantia from Panama and Galapagos Islands, MONRO, 960; Polychaeta sedentaria from Panama and Galapagos Islands, MONRO, 931; Oligochaetes from Guiana, Venezuela and Brazil, ČERNOSVITOV, 249; Redescriptions of Polychaets from Rio de Janeiro Bay, AUGENER, 69; New *Glossoscolex* sp., Brazil, ČERNOSVITOV, 246; New Glossoscolecidae from Brazil, MICHAELSEN, 943; Oligochaeta from Cape Horn and Patagonia, ČERNOSVITOV, 250.

New Zealand.—Pelagic Polychaeta from New Zealand waters collected by "Terra Nova" antarctic expedition, BENHAM, 134.

Arctic.—Polychaeta and Gephyrea from East Greenland, WESENBERG-LUND, 1480.

Antarctic.—Distribution of Polychaeta in the macroplankton of the Antarctic, Atlantic sector, MACKINTOSH, 881; Biogeographical relations of antarctic Oligochaeta, WITTMANN, 1503.

Geological.—Fossil annelids, Pliocene, Italy, ANTONELLI, 55; Fossil annelid in limestone, S. Missouri, BALL, 91; Fossil annelids in the Cambrian, Shropshire, COBBOLD & POCKOCK, 297; Serpulid in Permian, Madagascar, COLLIGNON, 304;

Arabellites sp. from Upper Devonian, New York, ELLER, 419; New forms of annelid jaws from Upper Devonian, New York, ELLER, 420; Fossil annelids from chalk, Heidelberg, GRUBER, 574; *Serpula* in the organic remains of the pre-quaternary limestones, Sweden, HADDING, 580; Fossil polychaets in Cenoman cretaceous Germany, HÄNTZSCHEL, 598; Three Serpulids in the cretaceous Moravia, JAROŠ, 712; New *Serpulites* sp. in lower Ordovician, Korea, KOBAYASHI, 764; Fossil Serpulids in the Neocomien cretaceous, France, MAIRE, 888; Fossil Serpulids from Senonian and Danian deposits (Cretaceous), Denmark, NIELSEN, 1000; *Serpula spirulea* in the Eocene, REINA, 1138; Palaeozoic plankton polychaets, North America, RUEDEMANN, 1176; Fossil Polychaets from the chalk deposits of northern Schleswig, SCHÖNFELDER, 1211; *Spirorbis pusillus* in the Carboniferous, Hungary, SUSTA, 1323; Fossil annelids in lower Devonian, Germany, WILSCHOWITZ, 1492; Fossil *Serpula* and *Ditrupa* spp., Southampton docks, WRIGLEY, 1513; New Pennsylvanian Conodonts from Oklahoma, HARRIS & HOLLINGSWORTH, 602; New problematic fossil genus, Cambrian, Vermont, HOWELL, 667.

SYSTEMATIC.

ANNELIDA.

ARCHIANNELIDA.

[No records.]

POLYCHAETA.

Nereimorpha.

NEREIDAE.

Ceratocephale Malmgren, preocc., replaced by *Chaunorhynchus* Chamberlin, MONRO Proc. Zool. Soc. London 1933 p. 46.

Ceratonereis versipedata (Ehlers), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 45–46 fig. 19.

Chaunorhynchus crosslandi sp. n. Gorgona Is., MONRO Proc. Zool. Soc. London 1933 pp. 46-49 fig. 20.

Heteronereis sp., Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 49-51 fig. 21.

Leonnates sp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 48-50 figs. 4-8.

Leptonereis sp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 50-52 figs. 9-11.

Lycastis ranauensis Feuerb., Java, AUGENER Treubia Buittenzorg 14 1933 p. 193.

†*Nereidavus perlongus* sp. n. Upper Devonian, New York, ELLER Ann. Carnegie Mus. Pittsburg 22 1934 p. 312 pl. xxiii figs. 11-16.

Nereis succinea (Leuck.), Panama, p. 42, *funchalensis* Langerhans, Madeira p. 43 fig. 18, MONRO Proc. Zool. Soc. London 1933.—*N. oxyroda* Marenz. pl. xiii figs. f-h, *japonica* Izuka pl. xiii figs. i, j. Inland Sea, Japan, OKUDA Annot. zool. jap. 14 1933 pp. 247-248.—*N. aibuhitensis* Gr. p. 361, *oxyroda* Marenz. p. 362, China, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934.—*N. torta* sp. n. Annam, FAUVEL Bull. Mus. Hist. Nat. Paris (2) 6 1934 pp. 41-43 figs. 2, 3.—*N. Legeri* sp. n. pp. 57-61 figs. 17-21, *abnormis* Horst pp. 61-62 fig. 22, *Fauveli* sp. n. pp. 62-65 figs. 23-29, *zonata* Malmgr. pp. 65-68 figs. 30-35, *obscura* sp. n. pp. 68-70 figs. 36-42, *kerquensis* McInt. pp. 71-74 figs. 43-49, spp. indet. pp. 74-90 figs. 50-70, Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934.—*N. (Ceratoneis) singularis* Treadwell pp. 91-96 figs. 71-79, *incisa* pp. 97-99 figs. 80-83, *imperfecta* pp. 99-102 figs. 84-88, spp. n. Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934.—*N. (Neanthes) crucifera* Gr., Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang ho Pai ho Tsien-Tsin 15 1933 pp. 23-24 fig. 2.—*N. (Neanthes) Augeneri* sp. n., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 52-54 figs. 12, 13.

Perinereis nuntia var. *brevicirris* Grube, coast of Formosa, epitocous phase, TAKAHASHI Annot. zool. jap. 14 1933 pp. 203-209 pl. ix.

Phyllonereis gen. n. Nereidae, benedeni sp. n. Bay of Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934 pp. 135-136 fig. 25.

Platynereis Dumerilii (Aud. & Milne-Edw.) pp. 114-116 figs. 109-113, *polyscalma* Chamb. pp. 117-123 figs. 114-124, Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934.

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Tylorrhynchus heterochaetus Quatref., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 43-47 figs. 1-3.

APHRODITIDAE.

Aphrodite solitaria Essenb., Perlas Is., MONRO Proc. Zool. Soc. London 1933 p. 12.

Eupholoë acuminata pp. 3-4 pl. i figs. 7, 8, *cirrata* pp. 5-6 figs. 9-16 spp. n. Puerto Rican Deep, TREADWELL Smithson. Misc. Coll. 91 viii 1934.

Halosydna nebulosa Gr., Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang ho Pai ho Tsien-Tsin 15 1933 pp. 12-13 fig. 1.—*H. (Alentia) annamita* sp. n. Annam, FAUVEL Bull. Mus. Hist. nat. Paris (2) 6 1934 pp. 40-41 fig. 1.

Halosydnoidea pilosa (Horst), Amoy, China, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 355-358 fig. 1.

Harmothoë sinagawaensis Izuka, Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang ho Pai ho Tsien-Tsin 15 1933 pp. 10-11.—*H. villosa* (Mugn.), *badia* (Théel) p. 16, *rarispira* (Sars) p. 17, *imbricata* (L.), *nodosa* (Sars) p. 18 E. Greenland, WESENBERG-LUND Medd. Grønland 104 xiv 1934.

Lepidasthenia retrodentata sp. n., Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 13-14 fig. 6.—*L. longissima* (Izuka), Amoy, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 p. 358.

Lepidonotus sagamiana (Izuka), Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang-ho Pai ho Tsien Tsin 15 1933 pp. 9-10.

Melaenis tropicus sp. n. Virgin Islands, TREADWELL Smithson. Misc. Coll. 91 viii 1934 pp. 1-2 pl. i figs. 1-6.

Panthalis helleri sp. n. Philippine Is., HOLLY Zool. Anz. Leipzig 105 1934 pp. 148-149 figs. 1, 2.

Polynoë janeirense Quatr., Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934 pp. 125-126 fig. 22.

Psammolyce kinbergi Hans., Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934 pp. 123-125 fig. 21.

Sthenelais variabilis var. *colorata* Monro, Panama, pp. 14-16 fig. 7, *malayana* Horst, Galapagos p. 16 fig. 8, MONRO Proc. Zool. Soc. London 1933.

ALCIOPIDAE.

Alciope mutilata sp. n. Porto Rico, TREADWELL Smithsonian. Misc. Coll. 91 viii 1934 p. 8 pl. ii figs. 20, 21.

HESIONIDAE.

Ancistrosyllis gorgonensis sp. n., Gorgona Is., MONRO Proc. Zool. Soc. London 1933 pp. 26-28 fig. 12.

Hesione pantherina var. *splendida* Sav., Batavia, AUGENER Treubia Buitenzorg 14 1933 pp. 181-182 fig. 1.

SYLLIDAE.

Amblosyllis speciosa var. *nigrolineata* var. n. associated with a sponge, Japan, OKADA Annot. zool. jap. 14 1934 pp. 317-320 2 figs.

Autolytus sp. pp. 39-41 fig. 17, (*Autolytides*) *anoplos* sp. n. pp. 38-39 fig. 16 Panama, MONRO Proc. Zool. Soc. London 1933.—*A. purpureimaculata* sp. n. associated with *Ostrea gigas*, Japan, OKADA Mem. Coll. Sci. Kyoto Imp. Univ. B8 1933 pp. 325-338 1 pl. [n.v.].—*A. monoceros* Ehlers, Japan, FAUVEL Annot. zool. jap. 14 1934 pp. 313-314.—*A. beringianus* sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 323 fig. 2.—*A. (Sacconereis)* spp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 125-127.

Odontosyllis spp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 pp. 128-130.—*O. polycera* (Schmarda), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 36-37 fig. 15.—*O. gibba* Clap. p. 185, *fulgurans* var. *arenicolor* Gr. pp. 186-191 E. Indies, AUGENER Treubia Buitenzorg 14 1933.—*O. (?) stenostoma* Clap., Japan, FAUVEL Annot. zool. jap. 14 1934 p. 311.

Pionosyllis decorus sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 323 fig. 1.

Syllis variegata Grube, Galapagos, pp. 28-29, *caeca* sp. n. pp. 30-32 fig. 13, *fuscusuturata* Aug. pp. 32-34 fig. 14, Taboga and Galapagos Is., MONRO Proc. Zool. Soc. London 1933.—*S. (Typosyllis) exilis* Grav., krohni Ehl. E. Indies, AUGENER Treubia Buitenzorg 14 1933 p. 183.—*S. (Typosyllis) krohni* Ehlers pp. 303-304, *fasciata* Malmg. pp. 304-305, *exilis* Grav. p. 305, *closterobranchia* Schmarda p. 306, ? *torquata* Mar. and Bobr. p. 306, *Okadaei* sp. n. pp. 307-309 figs. 1, 2, *inflata* Marenz. pp. 309-311, Japan, FAUVEL Annot. zool. jap. 14 1934.

Trypanosyllis taeniaeformis (Haswell) Galapagos and Gorgona Is., MONRO Proc. Zool. Soc. London 1933 pp. 35-36.—*T. asterobia* sp. n. attached to *Luidia quinaria*, Japan, OKADA Mem. Coll. Sci. Kyoto Imp. Univ. B8 1933 pp. 325-338 1 pl.

EUNICIDAE.

Arabella mutans (Chamberlin), Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 88-89.—*A. dubia* Hans. renamed *Lumbriconereis janeirensis*, AUGENER Zool. Meded. Leiden 17 1934 p. 138.

†*Arabellites alfredensis* pp. 309-310 pl. xxiii figs. 1-4, *spatiosioris* p. 311 figs. 6, 7, *latus* p. 311 fig. 5, *bipennis* p. 311 figs. 8-10 spp. n. Upper Devonian, New York, ELLER Ann. Carnegie Inst. Pittsburg 22 1934.

Diopatra cuprea (Bosc), Madeira, Trinidad, Panama, p. 71 fig. 29, *chiliensis* Quatrefages, Panama, pp. 72-73 fig. 30, *dentata* Kinb., Perlas Is. etc. pp. 73-76 fig. 31, MONRO Proc. Zool. Soc. London 1933.—*D. neapolitana* Chiaje, Gulf of Pe-Chou-li, pp. 28-32 figs. 3, 4, with differential table of *Diopatra* spp. pp. 33-35, FAUVEL Pub. Mus. Hoangho Pai ho Tien-Tsin 15 1933.

Drilonereis nuda Moore, Panama, MONRO Proc. Zool. Soc. London 1933 pp. 80-87 fig. 35.

Eunice antennata Sav. var. *aedificatrix* var. n., Panama, p. 60, *tridentata* Ehlers, Coiba Is., pp. 63-65 fig. 26, *flamentosa* Grube, Galapagos, pp. 65-66 fig. 27, MONRO Proc. Zool. Soc.

London 1933.—*E. antennata* Sav. pp. 130–131, *vittata* Chiaje pp. 132–135, *siciliensis* Gr. pp. 135–137, *viridis* Gray pp. 137–142 fig. 12, East Indies, AUGENER Zool. Meded. Leiden 16 1933.

†*Eunicites anchoralis* p. 307 pl. xxii figs. 1–5, *caulis* p. 308 figs. 26–28, *mutabilis* p. 308 figs. 6–14 spp. n., Upper Devonian, New York, ELLER Ann. Carnegie Inst. Pittsburg 22 1934.

Halla parthenopeia (Delle Chiaje), coast of Japan, first record from Pacific, OKUDA Annot. zool. jap. 14 1933 pp. 243–247 pl. xii figs. a–p.

Hyalinoecia branchiata sp. n. Puerto Rican Deep, TREADWELL Smithson. Misc. Coll. 91 viii 1934 pp. 6–8 pl. ii figs. 17–19.

Lumbriconereis gurjanovae sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 324 figs. 3, 4.—*L. janeirensis* sp. nom. n. pro *Arabella dubia* Hans., AUGENER Zool. Meded. Leiden 17 1934 pp. 138–139 fig. 28.

Lumbrinereis heteropoda Marenz. p. 82, *brevicirra* (Schmarda) p. 83, *latreilli* Aud. & Milne-Edw. p. 84, *albifrons* Crossland p. 85, *sphaerocephala* (Schmarda), *africana* Aug. p. 86, Panama and Galapagos Is., MONRO Proc. Zool. Soc. London 1933.

Lysidice collaris Grube p. 69, *ninetta* Aud. & Milne-Edw. p. 70, Galapagos and Panama, MONRO Proc. Zool. Soc. London 1933.—*L. collaris* Gr., East Indies, AUGENER Zool. Meded. Leiden 16 1933 pp. 144–146.

Marphysa sanguinea var. *americana* var. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 68–69 fig. 28.—*M. iwamushi* Izuka, Inland Sea, Japan, OKUDA Annot. zool. jap. 14 1933 p. 247 pl. xiii figs. a–e.—*M. soembaensis* sp. n. E. Indies, AUGENER Treubia Buitenzorg 14 1933 pp. 196–198 fig. 2.—*M. graveyhi* Southern, anatomy, AIYAR Rec. Ind. Mus. Calcutta 35 1933 pp. 287–323 61 figs.—*M. sinensis* sp. n., Chinese coast, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 367–369 fig. 5.—*M. tamurai* sp. n. Hiroshima, Japan, OKUDA Proc. Imp. Acad. Tokyo 10 1934 pp. 521–523 9 figs.

Nausicaa minima Hans., Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934 p. 137 fig. 26.

Ninoë chilensis Kinberg, Gorgona Is., MONRO Proc. Zool. Soc. London 1933 pp. 89–91 fig. 36.

Oenone fulgida Sav., Coiba Is., MONRO Proc. Zool. Soc. London 1933 p. 91.

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Staurocephalus rudolphii (Delle Chiaje), Galapagos, p. 92, *angolanus* (Aug.), Panama, p. 93, MONRO Proc. Zool. Soc. London 1933.

Stauronereis rudolphii Chiaje, Arctic, AUGENER Zool. Meded. Leiden 16 1933 pp. 154–155.

PHYLLODOCIDAE.

Callizona bongraini Gravier pp. 189–190 pl. i figs. 11, 12, *gravieri* sp. n. pp. 190–191 pl. i figs. 13–17, pelagic near New Zealand, BENHAM Brit. Antarct. (“Terra Nova”) Exped. Nat. Hist. Rept. 7 iii 1929.

Eulalia lobocephala Kinb., Taboga Is., MONRO Proc. Zool. Soc. London 1933 p. 20 fig. 9.

Greeffia oahuensis McInt., pelagic near New Zealand, BENHAM Brit. Antarct. (“Terra Nova”) Exped. Nat. Hist. Rept. 7 iii 1929 pp. 188–189 pl. i figs. 8–10.

Macrophyllum benedeni Hans., Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934 pp. 127–128 fig. 24.

Phyllodoce malmgreni Gravier ?, Amoy, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 p. 360.—*P. (Anaitides) lamellifera* (Pall.), Taboga Is., pp. 22–24 fig. 10, *panamensis* Treadwell, Perlas Is., pp. 24–25 fig. 11, MONRO Proc. Zool. Soc. London 1933.

Vanadis augeneri sp. n., pelagic near New Zealand, BENHAM Brit. Antarct. (“Terra Nova”) Exped. Nat. Hist. Rept. 7 iii 1929 pp. 187–188 pl. i figs. 1–7.

TOMOPTERIDAE.

Tomopteris carpenteri Quatrefages pp. 191-195 pl. ii figs. 18-23, *septentrionalis* Quat. pp. 195-196, *elegans* Chun p. 196 pl. ii figs. 24-26, *cavalli* Rosa pp. 197-198 pl. ii figs. 27, 28, pelagic near New Zealand, BENHAM Brit. Antarct. ("Terra Nova") Exp. 1910 Nat. Hist. Rept. 7 iii 1929.

GLYCERIDAE.

Glycera sp., Panama, MONRO Proc. Zool. Soc. London 1933 pp. 57-58 fig. 25.—*G. posterobranchia* Hoagl., Bonda, AUGENER Zool. Meded. Leiden 16 1933 pp. 156-158 fig. 13.—*G. onomichiensis* Izuka p. 365 fig. 3, *chirori* Izuka p. 365 fig. 4, *decipiens* Marenz. p. 366, Amoy, China, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934.—*G. edentata* Hans p. 143, *incerta* Hans p. 144 fig. 29, Rio de Janeiro, AUGENER Zool. Meded. Leiden 17 1934.

Goniada oculata Treadwell, Rio Hacha (Goajira), AUGENER Zool. Meded. Leiden 16 1933 pp. 158-160.

NEPHTHYDIDAE.

Nephtys sp., Coiba Is., pp. 51-52 fig. 22, *tabogensis* sp. n. Taboga Is., pp. 53-55 fig. 23, *dibranchis* Gr., Gorgona Is., pp. 56-57 fig. 24, MONRO Proc. Zool. Soc. London 1933.—*N. sinensis* Fauvel, Amoy, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 363-365 fig. 2, Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang ho Pai ho Tien Tsin 15 1933 pp. 40-42 fig. 5.

CHRYSOPELALIDAE.

Bharwania riveti (Gravier), Taboga Is., p. 17, *goodei* Webster, Galapagos, p. 18, MONRO Proc. Zool. Soc. London 1933.

Amphinomorpha.

AMPHINOMIDAE.

Amphinome rostrata Pall., Java, AUGENER Treubia Buitenzorg 14 1933 p. 177.

Chloeia pinnata Moore p. 7 fig. 3, *viridis* Schmarda p. 9 fig. 4, Panama, MONRO Proc. Zool. Soc. London 1933.—*C. flava* Pall, Queensland, p. 177, *parva* Baird pp. 178-179, AUGENER Treubia Buitenzorg 14 1933.

Eurythoe complanata (Pall.) p. 4, *dubia* Horst p. 5 fig. 1, *ambigua* sp. n.

p. 6 fig. 2, Panama, MONRO Proc. Zool. Soc. London 1933.—*E. complanata* Pall. E. Indies, AUGENER Treubia Buitenzorg 14 1933 p. 179.

Hermodice striata Kinb., Batavia, AUGENER Treubia Buitenzorg 14 1933 p. 180.

Notopygos ornata Grube, Panama, MONRO Proc. Zool. Soc. London 1933 pp. 10-11 fig. 5.

Myzostomida.

[No records.]

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ARENICOLIDAE.

Arenicola cristata Stimpson, Inland Sea, Japan, OKUDA Annot. zool. jap. 14 1933 p. 248 pl. xiii figs. k-m.—*A. clapedii* Lev., Kurile Is., OKUDA Bull. Biogeograph. Soc. Tokyo 4 1934 pp. 217-224 pls. xix-xxi.

CAPITELLIDAE.

Dasybranchus caducus var. *lumbrioides* Grube, Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 1059-1060 fig. 8.

CHLORHAEMIDAE.

Flabelligera affinis Sars?, Panama, MONRO Proc. Zool. Soc. London 1933 p. 1056 fig. 5.

Stylarioides capensis var. *americana* Monro p. 1057 fig. 6, *papillata* (Johnson) p. 1058 fig. 7, Panama and Galapagos, MONRO Proc. Zool. Soc. London 1933.—*S. parmatum* Gr., E. Indies, AUGENER Treubia Buitenzorg 14 1933 p. 198 fig. 3.

CIRRATULIDAE.

Acrocirrus uchidai pp. 197-202 figs. 1-4, *muroranensis* pp. 202-206 figs. 5-7, spp. n., *varidus* Morenz. pp. 206-209 figs. 8, 9, Japan, OKUDA J. Fac. Sci. Hokkaido Zool. 2 1934.—*A. heterochaetus* sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 pp. 326-327 fig. 7.

Ambo americana sp. n. Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 1055-1056.

Audouinia polytricha (Schmarda), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1054-1055.—*A. dasylophia* (Marenz.)?, Chinese coast, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 p. 371 fig. 6.

Dodecaceria sp., pelagic, Banda, AUGENER Zool. Meded. Leiden 17 1934 pp. 76-77 fig. 15.

Heterocirrus alatus (Southern) subsp. *maculatus* subsp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 325 fig. 6.

MALDANIDAE.

Asychis javanica sp. n. Java, AUGENER Zool. Meded. Leiden 17 1934 pp. 81-82 fig. 16.

Clymene (*Euclymene*) *rubrocincta* (Johnson), Coiba Is., MONRO Proc. Zool. Soc. London 1933 p. 1062 fig. 10.

Maldane gorgonensis sp. n. Gorgona Is., MONRO Proc. Zool. Soc. London 1933 pp. 1060-1061 fig. 9.

Maldanella fimbriata sp. n. Porto Rico Deep, TREADWELL Smithson. Misc. Coll. 91 viii 1934 pp. 8-9 pl. ii figs. 22-24.

OPHELIIDAE.

Armandia sp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris 14 iii 1934 p. 131.

Ophelina hachaensis sp. n. Rio Hacha, Goajira, AUGENER Zool. Meded. Leiden 17 1934 pp. 70-71 fig. 14.

Polyophthalmus sp., Annam, GRAVIER & DANTAN Ann. Inst. Océanogr. Paris n.s. 14 iii 1934 p. 132.

Travisia chinensis Grube, Chinese coast, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 373-374 fig. 8.

SCALIBREGMIDAE.

Hyloscolex sp., Chinese coast, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 p. 372 fig. 7.

Spiomorpha.

SPIONIDAE.

Polydora ciliata (Johnst.) subsp. *limicola* subsp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 325 fig. 5.

Pygospio elegans Clap., Finland, RENFORS Mem. Soc. Fauna fenn. Helsingfors 9 1933-34 pp. 31-32.

ARICIIDAE.

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Haploscoloplos panamensis sp. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1045-1046 fig. 1.

CHAETOPTERIDAE.

Mesochaetopterus alipes sp. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1050-1052 fig. 3.—*M. japonicus* sp. n. Japan, FUJIWARA J. Sci. Hiroshima Univ. (Zool.) 3 1934 pp. 1-14 6 figs. 3 pls.

Telepsavus costarum Clap., Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1052-1054 fig. 4.

MAGELONIDAE.

Magelona pacifica sp. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1048-1049 fig. 2.

PARAONIDAE.

Aricidea ramosa p. 657 fig. 3A, *antennata* p. 658 figs. 2, 3B, spp. n., Pacific coast, Siberia, ANNENKOVA C.R. Acad. Sci. U.R.S.S. Leningrad n.s. 3 1934.

Paraonis ivanovi p. 656 fig. 1A, (*Paraonides*) *lyrififormis* pp. 656-657 fig. 1B, spp. n. Bering Sea, ANNENKOVA C.R. Acad. Sci. U.R.S.S. Leningrad n.s. 3 1934.

Serpulimorpha.

SERPULIDAE.

†*Cementula sphaerica* pp. 89-90 pl. i fig. 12, *applanata* p. 97 pl. ii fig. 7, *contorta* p. 108 pl. iii fig. 3 spp. n. cretaceous, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931.

Crosslandiella gen. n. Serpulidae, *multispinosa* sp. n. pp. 1085-1087 fig. 28, var. *inarmata* var. n. pp. 1087-1088 fig. 29, Gorgona Is., MONRO Proc. Zool. Soc. London 1933.

†*Ditrupula canteriata* v. Hag. p. 87 pl. i figs. 1, 2, *cicatricata* p. 87 figs. 3, 4, *Hagenowii* p. 88 figs. 5, 6, *Triminghamiensis* p. 88 figs. 7, 8, *faxensis* p. 95 pl. ii figs. 4, 5, *tubaeformis* p. 97 fig. 6, spp. n. Cretaceous, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931.

†*Filigranula faxensis* sp. n. coral limestone, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931 p. 107 text-fig. 2.

†*Glomerula gordialis* Schloth, Cretaceous, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931 pp. 88–89 pl. i figs. 9–11.

Hydroides uncinata (Philippi) p. 1082 fig. 25, *crucigera* Mörch. p. 1083 fig. 26, *inermis* sp. n. pp. 1083–1085 fig. 27, Taboga and Galapagos, MONRO Proc. Zool. Soc. London 1933.—*H. (Eupomatus) gairacensis* sp. n. Gairaca (Sta. Marta), AUGENER Zool. Meded. Leiden 17 1934 p. 117 fig. 20.

Mercierella enigmatica Fauvel, Sardinia, LINDEGG Natura Milan 25 1934 pp. 135–145 5 figs.

Miroserpula inflata Dons, Norway, DONS K. norske Vidensk. Selsk. Trondhjem 6 1934 pp. 24–27 1 fig., pp. 35–37 5 figs.

†*Proterula costata* p. 108 pl. iii figs. 11, 12, *faxensis* p. 108 fig. 9, *transversa* p. 109 fig. 13, spp. n. coral limestone, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931.

Protula tubularia (Montagu) var. *balboensis* var. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1088–1090 fig. 30.

Salmacina dysteri var. *tribranchiata* (Moore), Galapagos, MONRO Proc. Zool. Soc. London 1933 p. 1090 fig. 31.

†*Serpentula ampullacea* Sow. p. 90 pl. i figs. 13–15, *cincta* Goldf. p. 90 figs. 17–19, *fluctuata* p. 91 fig. 20, *idmonoides* sp. n. p. 91 fig. 21, *tetragona* Sow. p. 92, *tuberculifera* sp. n. p. 92 figs. 22, 23, *incrassata* p. 97 pl. ii fig. 8a–c, *dentata* p. 98 fig. 9, *dorsolineata* p. 98 figs. 10, 11, *erecta* p. 99 figs. 12, 13, *indistincta* p. 99 text-fig. 1, *ter-undulata* p. 99 pl. ii fig. 14, *undulifera* p. 100 figs. 15a, b Cretaceous, *alata* p. 109 pl. iii figs. 18, 19, *annulata* p. 109 figs. 14–17, *filiformis* p. 109 fig. 21, *juliformis* p. 110 fig. 30, *quadrata* p. 110 fig. 22, *siphonata* p. 110 fig. 26, *tripartita* p. 110

figs. 25, 26, coral limestone, Denmark, spp. n., NIELSEN Medd. dansk. geol. Foren. 8 1931.—†*S. (Serpula) triangularis* Goldf. p. 90 fig. 7, cf. *quadrifidicincta* Goldf. p. 90 fig. 8, chalk deposits, Schleswig, SCHÖNFELDER Jber. Niedersachs. geol. Ver. Hannover 25 1933.

†*Serpulites ruedemanni* sp. n., Tomkol beds of Doten, Cambro-Ordovician, Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. 3 1934 p. 527 pl. i figs. 9–12.

Sphaeropomatus gen. n. Serpulidae, *miamiensis* sp. n. on carapace of freshwater shrimp, *Macrobrachium jamaicense*, Florida, TREADWELL J. Wash. Acad. Sci. 24 1934 pp. 338–341 9 figs.

Spirobranchus contiarei (Gravier), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1080–1081 fig. 24.

Spirorbis (Dexiospira) spirillum (L.) commensal on pyenogonid, *Lecythorhynchus hilgendorfi*, Japan, OKUDA Annot. zool. jap. 14 1934 pp. 437–440 3 figs.—†*S. pusillus* Martin, Carboniferous, SUSTA Sbor. prir. Společ. v. Mor. Ostrave 7 1932 p. 138 pl. ii fig. 6.

†*Spirorbula aspera* Hag. p. 92 pl. i figs. 24, 25, *conica* Hag. p. 92 figs. 26–28, *cylindrica* sp. n. p. 93 figs. 29, 30, *granulata* Sow. p. 93 figs. 31, 32, *pygmaea* Hag. p. 93 figs. 33, 34, *tortilis* sp. n. p. 94 pl. ii fig. 1, *trochiformis* Hag. p. 94 figs. 2, 3, *ampla* p. 100 pl. ii fig. 16, *ascendens* p. 101 figs. 17–19, *corrugata* p. 102 figs. 20, 21, *distincta* p. 102 figs. 22–24, *dorsata* p. 103 figs. 25, 26, *multilineata* p. 104 figs. 27–29, *parietalis* p. 105 figs. 30, 31, *Rosenkrantzii* p. 105 pl. iii fig. 8, *serrata* p. 105 pl. ii fig. 32, *sulcata* p. 106 pl. iii figs. 6, 7, *tenuilineata* p. 106 pl. iii fig. 10, spp. n. Cretaceous, *cingulata* p. 111 pl. iii figs. 23, 24, *expansa* p. 111 figs. 28, 29, *jodiformis* p. 111 fig. 27 spp. n. coral limestone, Denmark, NIELSEN Medd. dansk. geol. Foren. 8 1931.—†*S. ascendens* Niels. p. 91 fig. 9a, b, *conica* Hag. p. 91 fig. 10a, b, chalk deposits, Schleswig, SCHÖNFELDER Jber. Niedersachs. geol. Ver. Hannover 25 1933.

SABELLIDAE.

Amphiglene pacifica sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 pp. 328–329 fig. 9.

Bispira rugosa (Moore) var. *monterea* (Chamb.), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1076-1078 fig. 23.

Demonax leucaspis (Kinb.), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1075-1076 fig. 22.

Manayunkia pacifica sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 329 fig. 10.

Oridia crenicollis sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 p. 330 fig. 11.

SABELLARIIDAE.

Idanthyrus pennatus (Peters) p. 1065 fig. 13, *armatus* Kinb. p. 1066 fig. 14 Panama, MONRO Proc. Zool. Soc. London 1933.

Pallasia porrecta Ehl., comparison with *Eupallasia giardi* McInt., AUGENER Zool. Meded. Leiden 17 1934 p. 93 fig. 19.

Sabellaria pectinata Fauvel var. *moorei* var. n. Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1063-1064 fig. 12.—*S. javanica* sp. n. Java, pp. 90-91 fig. 18, *bellis* Hans., Rio de Janeiro, pp. 149-150 fig. 30, *bella* Grube pp. 151-153 fig. 31, Brazil AUGENER Zool. Meded. Leiden 17 1934.—*S. (Phragmatopoma) virginii* (Kinb.), Panama, MONRO Proc. Zool. Soc. London 1933 pp. 1062-1063 fig. 11.

Terebellomorpha.

TEREBELLIDAE.

Lanicides taboquillae (Chamberlin), Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 1069-1070 fig. 17.

Lysilla lovénii Malmgr., E. Greenland, WESENBERG-LUND Medd. Grønland 104 xiv 1934 pp. 26-28 figs. 7, 8.

Neoleprea amoyensis sp. n. Amoy, China, MONRO Ann. Mag. Nat. Hist. London (10) 13 1934 pp. 375-376 fig. 9.

Nicolea sinensis Fauvel, Gulf of Pe-Chou-li, China, FAUVEL Pub. Mus. Hoang ho Pai ho Tien-Tsin 15 1933 pp. 55-57 fig. 6.

Pista alata Moore pp. 1066-1068 fig. 15, *herpini* Fauvel p. 1068 fig. 16, Panama and Galapagos, MONRO Proc. Zool. Soc. London 1933.

Polycirrus pallidus (Clap.), Madeira, MONRO Proc. Zool. Soc. London 1933 pp. 1074-1075 fig. 21.

Polymnia nebulosa (Montagu), Galapagos, p. 1072, *regnans* (Chamberlin), Panama, p. 1072 fig. 19, MONRO Proc. Zool. Soc. London 1933.

Streblosoma verrilli Treadwell, Panama and Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 1073-1074 fig. 20.

Terebella gorgonae sp. n., Galapagos, MONRO Proc. Zool. Soc. London 1933 pp. 1070-1071 fig. 18.

Terebellides stroemi Sars, Leiden Museum, AUGENER Zool. Meded. Leiden 17 1934 pp. 106-108.

AMPHARETIDAE.

Neosabellides litoralis sp. n. Bering Is., ANNENKOVA Zool. Anz. Leipzig 106 1934 pp. 327-328 fig. 8.

AMPHICTENIDAE.

Pectinaria japonica Nilsson pp. 321-324 figs. 1-3, *bocki* Hessle pp. 324-326 figs. 4-6, Japan, OKUDA Annot. zool. jap. 14 1934.

†Incertae sedis.

†*Eopolychaetus albaniensis* Ruedemann, Ordovician, New York, RUEDEMANN Mem. Geol. Soc. America 2 1934 p. 86 pl. xxi fig. 1.

†*Haileyia* [gen. n. ?] *adhaerens* sp. n., Ordovician, New York, RUEDEMANN Mem. Geol. Soc. America 2 1934 p. 86 pl. xxi figs. 10, 11.

†*Klakesia* gen. n. *simplex* sp. n. Silurian, Alaska, RUEDEMANN Mem. Geol. Soc. America 2 1934 p. 89 pl. xxi figs. 7-9.

†*Protoscolex* (?) *longus* sp. n. Ordovician, New York, RUEDEMANN Mem. Geol. Soc. America 2 1934 p. 88 pl. xx figs. 11-16.

OLIGOCHAETA.

Archioligochaeta.

ENCHYTRAEIDAE.

Bryohenlea gen. n. Enchytraeidae, type *Bryodrilus udei* Eisen, ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 295.

Buchholzia africana sp. n., Algeria, ČERNOSVITOV Bull. Soc. Hist. nat. Alger 24 1933 pp. 255–258 8 figs.

Enchytraeus marinus Moore, Bermuda, transferred to *Stephensoniella* pp. 233–237 figs. 1–7. *cavicola* Steph. p. 298 figs. 1, 3, 4, 10, 11, *rangoonensis* Steph. p. 298 fig. 2, *myrmecophilus* Čern. p. 301 figs. 6–8, ČERNOSVITOV Zool. Anz. Leipzig 105 1934.—*E. přezvalskiji*, *issyk-kulensis* spp. n. Lake Issyk-kul p. 247 fig. 3, with notes on buccal organ of other Enchytraeids pp. 245–251 figs. 1, 2, HRABĚ Zool. Anz. Leipzig 106 1934.

Fridericia ratzeli Eisen, ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 300 fig. 5.

Hemienchytraeus gen. n. Enchytraeidae, type *Enchytraeus stephensoni* Cogn., ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 303.

Henlea irkutensis sp. n. Siberia, BUROV Bull. Inst. Sc. Biol. Géogr. Univ. Irkutsk 4 1929 p. 126.—*H. balcanica* Černos, syn. of *Michaelseniella brucei* (Steph.), ČERNOSVITOV Bull. Mus. Hist. nat. Paris (2) 6 1934 p. 373.

Litorea Čejka 1913 referred to *Enchytraeus*, ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 297.

Michaelseniella gen. n. Enchytraeidae, type *Archienchytraeus nasutus* Eisen, ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 298.—*M. brucei* (Steph.), Greenland, synonymy, ČERNOSVITOV Bull. Mus. Hist. Nat. Paris (2) 6 1934 pp. 374–375.

Pachydriulus Clap. emend., ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 245.—*P. helgolandicus* sp. n. Heligoland, MICHAELSEN Zool. Anz. Leipzig 108 1934 pp. 135–141 5 figs.

Stephensoniella gen. n. Enchytraeidae, for *Enchytraeus barkudensis* Steph. and *E. marinus* Moore, ČERNOSVITOV Zool. Anz. Leipzig 105 1934 p. 243.

TUBIFICIDAE.

Branchiura sowerbyi Bedd., Indochina, MICHAELSEN Arch. zool. exp. gén. Paris 76 1934 p. 494.

Limnodrilus hoffmeisteri Clap., Java, MICHAELSEN Arch. Néerland. Zool. Leiden 1 1934 pp. 100–102.

Psammoryctes vide *Tubifex*.

Tubifex (*Psammoryctes*) *moravicus* sp. n., Moravia, HRABĚ Sborn. Klub. přír. Brne 16 1934 pp. 48–52, *moravicus*, *fontinalis* sspp. n. Lake Ochrida, with notes on other species and differential key, HRABĚ Zool. Anz. Leipzig 107 1934 pp. 33–39 10 figs.

Neoligochaeta

LUMBRICULIDAE.

Bythonomus Šulci sp. n. Herzegovina, HRABĚ Zool. Anz. Leipzig 106 1934 pp. 314–317.

Dorydriulus (*Guestphalinus*) *wiardi* sp. n. Westphalia, MICHAELSEN Mitt. Höhlen u. Karstf. Berlin 1933 i pp. 7–15 figs. 1, 2.

Rhynchelmis olchonensis sp. n. Lake Baikal, BUROV & KOSHOW Arb. Ost.-Sibir. Staatsuniv. Moscow 1 1932 p. 82.

Stylodrilus heringianus Clap., glacial lakes, Trentino, SCIACCHITANO Studi trentini 14 1934 pp. 139–140.

Styloscolex tetrathecus p. 80, *swarczewski* p. 82, *kolmakowi* p. 84 spp. n. Lake Baikal, BUROV Bull. Inst. Sc. Biol. Geogr. Univ. Irkutsk 5 1931 pp. 79–86.

Trichodrilus lengersdorfi sp. n. Germany, MICHAELSEN Mitt. Höhlen u. Karstf. Berlin 1933 i pp. 15–19 figs. 3, 4.

PHREORYCTIDAE.

Pelodrilus Cuenoti sp. n. Lorraine, TÉTRY C.R. Acad. Sc. Paris 199 1934 pp. 322–324.

MONILIGASTRIDAE.

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Meroscolex gen. n. Glossoscolecidae, *guianicus* p. 56 figs. 25-29, *longissimus* p. 57 figs. 30, 31 spp. n. French Guiana, ČERNOSVITOV Bull. Mus. Hist. Nat. Paris (2) 6 1934.

Pontoscolex corethrurus (Müll.), Burma, GATES Rec. Ind. Mus. Calcutta 35 1933 pp. 601-603 fig. 27.

Rhinodrilus longus p. 54 figs. 16-18, *annulatus* pp. 54-55 figs. 19, 20 spp. n. S. America, ČERNOSVITOV Bull. Mus. Hist. Nat. Paris (2) 6 1934.—*R. lakei* sp. n. Brazil, MICHAELSEN Bull. Mus. Hist. nat. Belg. 10 1934 xxv pp. 9-15 figs. 4-8.

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LUMBRICIDAE.

Allolobophora caliginosa trapezoides (Dug.), China, CHEN Contr. Biol. Lab. Sci. Soc. China Nanking Zool. 9 1933 pp. 216-221 figs.—*A. bulgarica* sp. n. Bulgaria, ČERNOSVITOV Bull. Inst. Roy. Hist. nat. Sofia 7 1934 pp. 74-76 figs. 3-5.

Bimastus parvus (Eisen), China, CHEN Contr. Biol. Lab. Sci. Soc. China Nanking Zool. 9 1933 pp. 222-224 figs.

Eisenia foetida Sav., organogenesis of nephridial system, VANDEBROEK Rec. Inst. zool. Torley-Rousseau Brussels 5 iii 1934 pp. 1-72 pls. i, ii.—*E. veneta* var. *Hraběi* pp. 72-73 figs. 1, 2, *rosea* (Sav.) var. *Štorkáni* p. 74 varr. n. Bulgaria, ČERNOSVITOV Bull. Inst. Roy. Hist. nat. Sofia 7 1934.

Lumbricus festivus (Sav.), new to Sweden, BERLIN Ark. Zool. Stockholm 26B ii 1934 pp. 1-3.

ACANTHODRILIDAE.

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Eutyphoeus annulatus var. *compositus* var. n. p. 563, *bullatus* sp. n. pp. 566–570, *constrictus* Gates pp. 570–572, *excavatus* Gates p. 572, *falcifer* sp. n. pp. 574–575 fig. 23, *foveatus* (Rosa) pp. 575–578, *longiseta* Gates pp. 580–582, *macer* sp. n. pp. 582–583 fig. 24, *manipurensis* Steph. pp. 583–585, *mar-moreus* sp. n. pp. 585–587, *montanus* sp. n. pp. 587–589 fig. 25, *peguanus* Gates pp. 589–592, *planatus* Gates p. 592, *strigosus* sp. n. pp. 598–600, Burma, GATES Rec. Ind. Mus. Calcutta 35 1933.—*E. assamensis* Steph. p. 271, *gigas* Steph. p. 272, *lippus* sp. n. p. 273, *manipurensis* Steph. p. 276, *nepalensis* Mich. p. 276, Indian Museum, GATES Rec. Ind. Mus. Calcutta 36 1934.

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Octochaetoides birmanicus (Gates) p. 557 fig. 22, *fermori* (Mich.) p. 559, Burma, GATES Rec. Ind. Mus. Calcutta 35 1933.—*O. birmanicus* (Gates), Indian Museum, GATES Rec. Ind. Mus. Calcutta 36 1934 pp. 269–271.

Wegeneriella michaelseni sp. n. Brazil, ČERNOSVITOV Bull. Mus. Hist. Nat. Paris (2) 6 1934 p. 50 figs. 5, 7.

MEGASCOLECIDAE.

Metapheretima vide *Pheretima*.

Neogaster gen. n. Megascolecidae, *americanus* sp. n. Brazil, ČERNOSVITOV Bull. Mus. Hist. Nat. Paris (2) 6 1934 pp. 51–53 figs. 8–13.

Perionyx viridis sp. n. Burma, GATES Rec. Ind. Mus. Calcutta 35 1933 pp. 551–553.—*P. macintoshii* Bedd., Indian Museum, GATES Rec. Ind. Mus. Calcutta 36 1934 pp. 265–266.

Pheretima Kinberg 1867 subdivided into subgg. *Parapheretima* Cogn., *Archipheretima* Mich., *Planapheretima*, *Polypheretima* subgg. n. pp. 12–17, *californica* Kinberg designated as type of genus and of type sub-genus p. 12, (*Ph.*) *lejokana* pp. 36–40, *fordi* pp. 40–45 figs. spp. n. Sarawak, MICHAELSEN Quart. J. Micr. Soc. London 77 1934.—*P. alexandri* (Bedd.) pp. 492–494, *analecta* Gates var. *promota* var. n. (?) pp. 494–496, *anomala* var. *typica* Steph. pp. 496–502, *centralis* Steph. p. 502, *insoleta* Gates pp. 504–510, *campanulata* (Rosa) pp. 511–521 fig. 18, *fucosa* sp. n. pp. 526–528, *janta* Gates pp. 530–532 fig. 30, *maculosa* sp. n. pp. 534–537 fig. 21, *papilio* var. *fracta* var. n. p. 539, *rufula* sp. n. pp. 543–546 Burma, GATES Rec. Ind. Mus. Calcutta 35 1933.—*P. pingi* Steph. pp. 228–234, *heterochaeta* (Mich.) pp. 234–238, *rockefelleri* sp. n. pp. 238–244, *thecodorsata* sp. n. pp. 244–249, *guillelmi* (Mich.) pp. 249–250, *hupeiensis* (Mich.) pp. 251–255, *yamadai* Hatai pp. 255–261, *leucocirca* sp. n. pp. 262–267, *morrisi* (Bedd.) pp. 267–270, *incongrua* sp. n. pp. 270–274, *hesperidum* (Bedd.) pp. 275–277, *corrugata* var. *kulingiana* var. n. pp. 278–281, *lauti* Ude pp. 282–288, *zoysiae* sp. n. pp. 288–294, figs., China, CHEN Contr. Biol. Lab. Sci. Soc. China Nanking Zool. 9 1933.—*P. (P.) petahana* sp. n., Borneo, pp. 102–104 fig. 1, *doroa* sp. n., Celebes, pp. 104–108 text-fig. 2 pl. ii figs. 4–6, *floresiana* sp. n. Flores, pp. 108–111 text-figs. 3, 4, pl. ii fig. 3, *posthuma* (Vaill.) pp. 111–112, *ambonensis* Cogn. pp. 112–113, (*Metapheretima*) *noebiana* sp. n. Flores, pp. 114–117 text-figs. 5, 6, pl. ii figs. 1, 2, MICHAELSEN Arch. Néerland. Zool. Leiden 1 1934.—*P. annandalei* Steph. p. 256, *bipora* (Bedd.) p. 257, *dunckeri* Mich. p. 258, *floweri* (Benh.) p. 258, *hawayana* (Rosa) p. 259, *houletti* (E. Perr.) p. 259, *mekongrana* (Cogn.) p. 260, *mirabilis* (Bourne) p. 260, *robusta* (Perr.) p. 264, *virgo* (Bedd.) p. 264, Indian Museum, GATES Rec. Ind. Mus. Calcutta 36 1934.—*P. (P.) touranensis* pp. 499–501 fig. 2, *amplectens* pp. 501–505 figs. 3–5, *bangolana* pp. 505–508 figs. 6, 7, *varellana* pp. 511–514 figs. 11, 12, *davydovi* pp. 517–519 fig. 15, *helvola* pp. 520–522 figs. 15 bis, 16, *langbiangi* pp. 522–526 fig. 17, *primadamae* pp. 526–529 figs. 18, 19, *tonkinensis* pp. 529–531 fig. 20, *caudana* pp. 531–533 fig. 21, *dalatana* pp. 533–535 fig. 22,

tertiadamae pp. 535-540 figs. 23-25,
alteradamae pp. 540-543 figs. 27, 28,
stephensoni pp. 543-546 fig. 29 spp. n.,
bianensis var. *duplofasciata* var. n.
 pp. 514-517 figs. 13, 14, *modiglianii*
 (Rosa) pp. 509-511 figs. 9, 10, Indo-
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 gén. Paris 76 1934.

Planapheretima subg. n. of *Pheretima*,
 type *P. moultoni* Mich., *frondicola*
 pp. 17-22, *ambulatoria* pp. 22-25 figs.,
 spp. n. Sarawak, MICHAELSEN Quart.
 J. Micr. Sc. London 77 1934.

Plutellus inflexus var. *compositus*
 var. n. pp. 477-480 fig. 14, *pandus*
 sp. n. pp. 480-483 fig. 15, Burma,
 GATES Rec. Ind. Mus. Calcutta 35 1933.
P. peregrinus sp. n. S. America,
 (ERNOSVITOV Bull. Mus. Hist. Nat. Paris
 (2) 6 1934 pp. 48-49 figs. 1-4.

Polypheretima subg. n. of *Pheretima*,
 type *Perichaeta stelleri* Mich. p. 15,
beranensis Mich. var. *tinjarana* var. n.
 pp. 25-29, *koyana* sp. n. pp. 29-36
 figs. Sarawak, MICHAELSEN Quart. J.
 Micr. Sc. London 77 1934.

Tonoscolex gen. n. Megascolecidae,
depressus (Gates) p. 484, var. *scutatus*
 var. n. pp. 485-487 fig. 16, *ferinus*
 sp. n. pp. 487-489 fig. 17, GATES Rec.
 Ind. Mus. Calcutta 35 1933.—*T. oneilli*
 (Steph.) p. 254, *striatus* (Steph.) p. 255,
horai (Steph.) p. 256, Indian Museum,
 GATES Rec. Ind. Mus. Calcutta 36 1934.

HIRUDINEA.

GLOSSIPHONIIDAE.

Glossiphonia lobata sp. n. in fish
 hatchery, Kashmir, BHATIA Ann.
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 4 figs.

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 core, India, CHELLADURAI Rec. Ind.
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HAEMADIPSIDAE.

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 pp. 17-23 4 figs.

HIRUDINIDAE.

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 specimens from Formosa and Martinique,
 OKA.

Limnoddella olivacea sp. n. Mexico,
 CABALLERO An. Inst. Biol. Mexico 4
 1933 pp. 179-182 figs. 1-4.

ECHIURIDA.

Bonellia suhmii Selenka, E. Green-
 land, WESENBERG-LUND Medd. Grøn-
 land 104 xiv 1934 pp. 12-15 figs. 5, 6.

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Hamingia arctica Kor. & Dan., E.
 Greenland, WESENBERG-LUND Medd.
 Grønland 104 xiv 1934 pp. 7-12 figs.
 1-4.

Ikeda taenioides (Ikeda), Japan, SATO
 Dobuts. Zasshi Tokyo 46 1934 p. 252
 fig. 9.

Pseudobonellia gen. n. type *Bonellia*
misakiensis Ikeda, ONODA Annot. zool.
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Thalassema bombayensis (Parsad &
 Awati), reproductive and segmental
 organs, AWATI & DESHPANDE J. Univ.
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T. owstoni Ikeda p. 249 figs. 2, 3,
sabinum Lanchester p. 250 figs. 4-6,
gogoshimense sp. n. pp. 251-252 figs. 7,
 8, Japan, SATO Dobuts. Zasshi Tokyo
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 of Clyde, Scotland, STEPHEN Proc.
 Phys. Soc. Edinburgh 22 1934 pp. 164-
 165.

Urechis unicinctus (Drasche), Japan,
 SATO Dobuts. Zasshi Tokyo 46 1934
 pp. 247-249 fig. 1.

GEPHYREA.

Sipunculida.

Aspidosiphon mulleri Dies., North
 Sea, STEPHEN Proc. Phys. Soc. Edin-
 burgh 22 1934 p. 173.

Dendrostoma ellipticum sp. n. Sea
 of Japan, SATO Sci. Rep. Tôhoku
 Univ. (4) 9 1934 pp. 20-22 pl. i fig. 10.

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squamatum Kor. & Dan., North Sea,
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Phascolion strombi Mont., North
 Sea, STEPHEN Proc. Phys. Soc. Edin-
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 Greenland, WESENBERG-LUND Medd.
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Phascolosoma elongatum Kef., Firth of Clyde, p. 165, *margaritaceum* Sars, *trybomi* Théel p. 166, *procerum* Möbius p. 168, *vulgare* Blainv. p. 169, North Sea, STEPHEN Proc. Phys. Soc. Edinburgh 22 1934.—*P. eremita* (Sars), E. Greenland, WESENBERG-LUND Medd. Grønland 104 xiv 1934 p. 6.—*P. vulgare* var. *tropicum* pp. 3–5 pl. i fig. 2, *margaritaceum* var. *antarcticum* pp. 5–7 pl. i fig. 3, *appendiculatum* sp. n. pp. 7–10 pl. i fig. 4, *glossi-papillosum* sp. n. pp. 10–12 pl. i fig. 5, *hyugense* pp. 12–14 pl., i fig. 6, *noto* pp. 14–16 fig. 7, *signum* pp. 16–17 fig. 8, *soyo* pp. 17–20 fig. 9 spp. n. Japan, SATÔ Sci. Rep. Tôhoku Univ. (4) 9 1934.

Physcosoma onomichianum (Ikeda), Japan, SATO Dobuts. Zasshi Tokyo 46 1934 p. 247.

Siphonosoma cumanense (Keferst.), Japan, SATO Dobuts. Zasshi Tokyo 46 1934 p. 246.

Sipunculus nudus Linn., Sea of Japan, SATÔ Sci. Rep. Tôkoku Univ. (4) 9 1934 p. 2 pl. i fig. 1, Dobuts. Zasshi Tokyo 46 1934 p. 246.—*S. norvegicus* Kor. & Dan., North Sea, STEPHEN Proc. Phys. Soc. Edinburgh 22 1934 p. 174.

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CONODONTA.

†*Cavrusgnathus* gen. n. Idiognathinae, p. 200, *alta* sp. n. Pennsylvanian, p. 201 fig. 10, HARRIS & HOLLINGSWORTH Amer. J. Sc. New Haven (5) 25 147 1933.

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†*Idiognathoides* gen. n. Idiognathinae, *sinuata* sp. n. Pennsylvanian, HARRIS & HOLLINGSWORTH Amer. J. Sc. New Haven (5) 25 147 1933 pp. 201–202 fig. 14.

†*Polygnathus bassleri* p. 198 fig. 13, *powhuskaensis* p. 199 fig. 12, spp. n. Pennsylvanian, HARRIS & HOLLINGSWORTH Amer. J. Sc. New Haven (5) 25 147 1933.

†*Scolopodus sigmoidalis* sp. n., limestone, Pennsylvania, HARRIS & HOLLINGSWORTH Amer. J. Sc. New Haven (5) 25 147 1933 p. 194 pl. i figs. 4, 5.

PROBLEMATICA.

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VII. BRACHIOPODA AND BRYOZOA

(a) BRACHIOPODA

BY

H. M. MUIR-WOOD, D.Sc.

CONTENTS

| | PAGE |
|------------------------------|------|
| I. TITLES | 1 |
| II. SUBJECT INDEX | 8 |
| III. SYSTEMATIC INDEX | 9 |

I.—TITLES.

1.—**Abrard, R.** Stratigraphie du Lias moyen et supérieur au sud de Millau et dans la région de Tournemire. Bull. Mus. Hist. nat. Paris (2) **6** 4 1934 pp. 391–392.

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II.—SUBJECT INDEX.

GENERAL.

Figured Jurassic Brachiopoda of Victor Maire Collection, NASSANS, 99.

Key to identification of Recent Arctic Brachiopods, ARNDT & GRIEG, 3.

Abridged classification of Brachiopoda, LAMEERE, 77.

Brachiopods as limestone builders, PTA, 110.

AETIOLOGY.

HENNIG, 60.

ETHOLOGY.

Morphology and environment, LAMONT, 78, 79.

PHYSIOLOGY.

LAMONT, 79; SENN, 128; LÖNNBERG & HELLSTRÖM, 89.

STRUCTURE.

Internal structure and serial sections of Jurassic and Cretaceous Telotrema, MUIR-WOOD, 98.

Internal structure of Spirifers and transverse sections of *Reticularia*, *Cyrtia*, *Cyrtina* etc., GRABAU, 49.

Palaeozoic Brachiopoda, LICHAREW, 88.

Spirifer nikitini, LICHAREW, 87.

Atremata, Neotremata, Protremata and transverse sections of *Leptaena rhomboidalis*, DEMANET, 27.

Devonian Terebratulids, TORLEY, 141.

Ribbing of shells, LAMONT, 79.

Structure and muscle-arrangement of *Gryphus vitreus*, COX, 21.

Lingula, SENN, 128.

General, CORI, 19; HENNIG, 60.

Spiriferids and Rhynchonellids with transverse sections of *Camarotoechia*, *Leiorhynchus*, *Pugnax* etc., GRABAU, 50.

Productids, SIMIĆ, 131.

(a) RECENT.

General, CORI, 19; LÖNNBERG & HELLSTRÖM, 89; STIASNY, 136; SENN, 128; Naples, COX, 21; Japan, YABE & HATAI, 151; Arctic Regions, ARNDT & GRIEG, 3; U.S.A., PROCTER, 113; West Indies, COOPER, 18.

(b) FOSSIL.

Palaeozoic.—England, STRAW, 139.

Cambrian.—England, COBBOLD & POCKOCK, 15; Belgium, MAILLIEUX, 90; Spain, SAMPELAYO, 120; Kashmir, REED, 114; Greenland, KOCH, 74; U.S.A., GRABAU, 48.

Ordovician.—England, KING & WILCOCKSON, 70; Scotland, LAMONT, 79; Belgium, MAILLIEUX, 90; Estonia, HENRICHSON, 61; Nova Zemlya, MILORADOVICH, 95; Greenland, KOCH, 74; Kashmir, REED, 114; Caracorum Mts., Tibet, GORTANI & MERLA, 47; Manchuria, KOBAYASHI, 71; Korea, KOBAYASHI, 73; Japan, KOBAYASHI, 72; China, CHANG, 12; U.S.A., KAY, 68; WHITCOMB, 147; New Zealand, CHAPMAN, 13.

Silurian.—England, KING & WILCOCKSON, 70; Scotland, LAMONT, 79; Belgium, MAILLIEUX, 90; France, MICROT, 93; Russia, ASATKIN, 4; Sweden, HADDING, 57; Nova Zemlya, MILORADOVICH, 95; Greenland, POUlsen, 111; China, YOH & CHIANG, 152; GRABAU, 49; India, Tibet, DAINELLI, 24; Turkestan, NIKIFOROVA, 101; Sahara, BONDON & CLABIOND, 10.

Siluro-Devonian.—Great Britain and N.W. Europe, KING, 69.

Devonian.—Belgium, MAILLIEUX, 90; MOUREAU, 97; France, LE MAÎTRE, 82, 83; PÉNEAU, 107; Germany, TORLEY, 141; DAHMER, 23; WEDEKIND, 145; Russia, BUBLICHENKO, 11; HECKER, 59; KRESTOVNIKOV, 75; Spain, GOMEZ, 46; Nova Zemlya, MILORADOVICH, 95; Greenland, NOE-NYGAARD, 102; Eurasia, FREDERICKS, 38; China, GRABAU, 48, 49; Turkestan, NIKIFOROVA, 101; DAINELLI, 24; Tripoli, PAGANI, 104; Sahara, BONDON & CLARIOND, 10; U.S.A., EHLERS & KLINE, 35; WESTGATE & FISHER, 146; STOOKEY, 138; WILLARD, 148, 149.

Carboniferous.—Coal Measures, England, STUBBLEFIELD, 140; Belgium, DEMANET, 26, 27; MAILLIEUX, 90; Upper Carboniferous, France, WATERLOT, 144; Germany, GALLWITZ, 43; Corsica, JODOT, 65; Spain, GOMEZ, 46; Russia, LICHAREW, 87; FREDERICKS, 37; FREDERICKS & EMELJANTZEV, 40; SEMICHATOV, 127; KRESTOVNIKOV, 75; Carnic Alps, HERITSCH, 62; Turkistan, LICHAREW, 86; DAINELLI, 24; Eurasia, FREDERICKS, 38; LICHAREW, 88; Tibet, GORTANI & MERLA, 47; China, GRABAU, 48, 49; LI & CHU, 85; CHU, 14; Sahara, BONDON & CLARIOND, 10; Greenland, NOE NYGAARD, 102; Nova Zemlya, MILORADOVICH, 95; U.S.A., GIFTY, 44; GUNNELL, 56; GREGER, 53; LAUDON, 80; LEES, 81; NEWELL, 100.

Permian.—Belgium, MAILLIEUX, 90; Sicily, DE GREGORIO, 54; RUIZ, 119; SOLIGNAC & BERKALLOFF, 133; Serbia, HERITSCH, 63; Spain, KARRENBERG, 66; Russia, FREDERICKS & EMELJANTZEV, 40; Eurasia, FREDERICKS, 38; Greenland, NOE-NYGAARD, 102; Arctic Regions, FREDERICKS, 39; China, YOH & CHIANG, 152; GRABAU, 51; Korea, OZAKI, 103; Japan, MASHKO, 92; Turkistan, DAINELLI, 24; Tibet, GORTANI & MERLA, 47; Madagascar, ASTRE, 5; Tunis, SOLIGNAC & BERKALLOFF, 133; DOUVILLÉ, SOLIGNAC & BERKALLOFF, 28.

Trias.—Belgium, MAILLIEUX, 90; Germany, SCHNETZER, 122; Serbia, PETKOVICA, 109; Spain, SOS, 134; KARRENBERG, 66; Balkans, BERNDT, 6; I. of Rodi, Aegean, MIGLIORINI & VENZO, 94; Dead Sea, WAGNER, 143; Indo-China, FROMAGET, 41; Tonkin,

FROMAGET, 42; Tibet and India, DAINELLI, 24; Australia, HOWCHIN, 64.

Rhaetic.—Austria, SIEBER, 130.

Jurassic.—England, MUIR-WOOD, 98; WILSON, HEMINGWAY & BLACK, 150; Belgium, MAILLIEUX, 90; France (Lias) ROQUEFORT, 116; (Lias) CORROY & GERARD, 20; (Lias) PARENT, 105; (Bathonian) BIGOT, 7; (Lias) DUBAR, 32; (Lias and Inferior Oolite) ABRARD, 1; (Oxfordian) DECHASSEAUX, 25; (Kimeridgian) DURAND, 34; NASSANS, 99; Germany, KAUFMANN, 67; STOL, 137; Moravia, REMES, 115; Italy, PARONA, 106; Spain, KARRENBERG, 66; (Lias-Bathonian) DUBAR, 29; Pyrenees, DUBAR, 30; Crimea and Caucasus, MOISSEIEV, 96; Balkans, BERNDT, 6; Greenland (Lias), ROSENKRANTZ, 117; India and Tibet, DAINELLI, 24; Syria (Bajocian-Kimeridgian), VAUTRIN, 142; Atlas Mts. (Lias), FALLOT, MORET & ROCH, 36; (Lias-Bathonian) DUBAR, 33; Morocco, DUBAR, 31; Australia, HOWCHIN, 64.

Cretaceous.—England (Cenomanian), MUIR-WOOD, 98; (Turonian and Senonian), ZAHALKA, 153; Scotland, CUMMING, 22; France (Neocomian), MAIRE, 91; (Urgonian), GOGUEL, 45; (Turonian and Senonian), ZAHALKA, 153; Germany, SCHÖNFELDER, 123; HÄNTZSCHEL, 58; Bohemia, ZAHALKA, 153; Serbia, PETKOVIĆ & PETKOVIĆ, 108; Balkans, STEFANOV, 135; (Aptian), BONČEV, 9; Madagascar (Turonian), COLLIGNON, 16; U.S.A. (Upper Cret.), SCOTT, 126; Australia, HOWCHIN, 64.

Tertiary.—Belgium, LERICHE, 84; Fiji I., LADD, 76; New Zealand, SERVICE, 129; ALLAN, 2; Australia, HOWCHIN, 64.

III.—SYSTEMATIC INDEX.

NOTE.—Classification according to C. Schuchert and C. M. Le Vene in *Fossilium Catalogus* 1 42 Brachiopoda 1929; and as emended by Schuchert and Cooper, *Mem. Peabody Mus. New Haven* 4 1 1932.

Full references are only given in the case of a new species. In other cases the numeral in "Large bold clarendon" refers to the list of titles where the full reference may be found. In the case where a reference is given in the Systematic Part, the volume number is printed in "Small bold clarendon."

ORDER PALAEOTREMATA.

KUTORGINACEA.

KUTORGINIDAE.

†*Kutorgina* sp., SCHWARZBACH 124 p. 31.—*K. (?) anglica* sp. n. Cambrian Shropshire, COBBOLD & POCKOCK Philos. Trans. London (B) 223 501 p. 328.

ORDER ATREMATA.

MICROMITRIDAE.

†*Micromitra pusilla* recorded, COBBOLD & POCKOCK 15 p. 326.

†*Micromitra (Paterina) labradorica*, cf. *minor* p. 326, COBBOLD & POCKOCK 15.

OBOLIDAE.

†*Dicellomus* cf. *politus*, ? sp. p. 31, REED 114.

†*Leptobolus novaezelandiae* sp. n. Ordovician New Zealand, CHAPMAN Trans. Proc. Roy. Soc. N.Z. 64 2 p. 115.—*L. walcotti* figured, RUEDEMANN 118 p. 78.

†*Lingulella concinna* recorded, RUEDEMANN 118 p. 77.—*L. cf. concinna* figured, cf. *ferruginea*, *viridis* p. 327, COBBOLD & POCKOCK 15.—? *L.* sp. p. 30, REED 114.—*L. tomkolensis* sp. n. p. 527, *dotensis* sp. n. p. 528 Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo geol. Min. 3 9.—*L. cfr. bella* figured p. 28, GORTANI & MERLA 47.—*L. acuminata* recorded from Cambrian of Spain, p. 207, SAMPELAYO 120.

†*Lingulepis* ? sp., REED, 114 p. 31.

†cf. *Obolus* sp. figured, CHAPMAN 13 p. 116.—*O. kashmiricus* sp. n. p. 29, sp. p. 30, Cambrian Kashmir, REED Palaeont. Ind. Calcutta 21 2.—*O. parvulus* p. 326, sp. indet. p. 327, COBBOLD & POCKOCK 15.—*O. barrandei* figured pls. ix, x p. 199, *leonensis* sp. n.,

trigonalis figured pl. xi, SAMPELAYO Explic. del nuevo Mapa geol. Esp. Madrid 1934.

†*Paterula amii, minuta* sp. n. p. 79, *longa* sp. n. p. 80 Ordovician N. America, RUEDEMANN Mem. Geol. Soc. Amer. Washington 2.

LINGULACEA.

LINGULIDAE.

†*Lingula quebecensis, philograptolitha* sp. n. p. 77, Ordovician N. America, sp. p. 78 figured, RUEDEMANN Mem. Geol. Soc. Amer. Washington 2.—*L. perelliptica* sp. n. p. 13, Silurian Greenland, POULSEN Medd. Grønland 72 1.—*L. tenuissima*, sp., SOS 134 p. 292.—*L.* sp. figured, CHANG 12 p. 7.—*L. beanii*, cf. *meyeri* p. 7 figured, STOLL 137.—*L.* sp. undet. figured, KOBAYASHI 72 p. 338.—*L. tenuissima* recorded, SCHNETZER 122 p. 8.—*L.* sp. internal structure, physiology etc., SENN 128 p. 20.—*L. unguis* recorded, STIASNY 136 p. 64.—*L. lepidula* figured, LAMONT 78 p. 2.—*L. squamiformis* p. 13, *straeleni* sp. n. p. 14, *parallela* p. 15, *elliptica* p. 17, Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.—*L.* sp. indet. figured, OZAKI 103 p. 92.—*L. missendenensis* sp. n. p. 114, zigzag sp. n. p. 115 Palaeozoic Bucks., STRAW Summ. Prog. Geol. Surv. Gt. Brit. 1932.

†*Lingula (Glossina) sigana* sp. n. Devonian Eifel, DAHMER Abh. preuss. geol. LdAnst. 147 p. 80.

†*Trigonoglossa tornacensis* sp. n. p. 19, Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.

ORDER NEOTREMATA.

SIPHONOTRETACEA.

OBOLELLIDAE.

†*Botsfordia* genus discussed p. 195, SAMPELAYO 120.—*B. cf. caelata* figured, REED 114 p. 32.

†*Obolella atlantica, atlantica comleyensis, atlantica transversa*, COBBOLD & POCKOCK 15 p. 329.

SIPHONOTRETIDAE.

†*Siphonotreta barrandei* figured pl. ix, SAMPELAYO 120.

ACROTRETACEA.

ACROTRETIDAE.

†*Acrothele* (?) sp., SCHWARZBACH 124 pp. 29, 31.—*A. aff. subsidua* p. 32, REED 114.—*A. intermedia* p. 329, *prima* p. 330 figured, COBBOLD & POOCK 15.—*A. ordoviciana* sp. n. Ordovician Caracorum, GORTANI & MERLA Spedizione Italiana de Filippi nell' Himàlaia etc. (1913-14) Bologna 5 p. 29.—*A. primaeva* recorded from Cambrian of Spain, SAMPELAYO 120.

†*Acrothele* (*Redlichella*) *granulata* p. 330, COBBOLD & POOCK 15.

†*Acrothyra comleyensis, sera*, COBBOLD & POOCK 15 p. 332.

†*Acrotreta gemmula* figured p. 330, *parvula, sagittalis, socialis* p. 331, COBBOLD & POOCK 15.—*A. cf. sagittalis* figured, *bisecta* p. 80, RUEDEMANN 118.

DISCINACEA.

DISCINIDAE.

†*Discina* sp. recorded from Cambrian of Spain p. 207, SAMPELAYO 120.—*D. sp. ind. aff. discoides* p. 8, SCHNETZER 122.

Discinisca lamellosa recorded, STIASNY 136 p. 64.

†*Lindstroemella glebosa* p. 29 figured, DEMANET 27.

†*Orbiculoidea scutulum* sp. n. p. 81, *plana* sp. n. p. 82, Ordovician U.S.A., RUEDEMANN Mem. Geol. Soc. Amer. Washington 2.—*O. tainei* figured, MAILLIEUX 90 pl. iv.—*O. nitida* figured p. 244, HENNIG 60.—*O. davreuxiana* p. 21, *nitida* p. 22, *portlockiana* sp. n. p. 24, *tornacensis* sp. n. p. 26 Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.—*O. crucifera* sp. n. p. 115, sp. p. 116, Palaeozoic Bucks., STRAW Summ. Prog. Geol. Surv. Gt. Brit. 1932.

†*Roemerella mailleuxi* sp. n. p. 27, Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.

†*Schizotreta papilliformis* figured, RUEDEMANN 118 p. 81.

CRANIACEA.

CRANIIDAE.

Crania anomala figured, CORI 19 p. 141.—*C. anomala* cell structure etc.

figured pp. 93, 101, SENN 128.—*C. anomala* recorded, ARNDT & GRIEG 3 p. 483.—*C. costata* figured, SCHÖNFELDER 123 p. 96.—*C. gracilis* recorded, HÄNTZSCHEL 58 p. 115.—*C. ryckholtiana* p. 31, *quadrata* p. 36 figured, DEMANET 27.

†*Craniella interstitialis* p. 79 figured, DAHMER 23.

†*Pholidops antiqua* described, STRAW 139 p. 116.

ORDER PROTREMATA.

SUBORDER ORTHOIDEA.

ORTHACEA.

NISUSIIDAE.

†*Nisusia vaticina* figured pl. xiii, pl. xiv p. 205, *peñae* sp. n. pl. xiv p. 206, Cambrian Spain, SAMPELAYO Explic. del nuevo Mapa geol. Esp. Madrid 1934.

†*Nisusia* (*Jamesella*) *pellico* figured pl. xiv, Cambrian Spain, SAMPELAYO 120.

BILLINGSSELLIDAE.

†*Billingsella gigantea* sp. n. p. 30, *asiatica* sp. n. p. 32 Ordovician Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia (1913-14) Bologna 5.—*B. exprorecta* p. 332, COBBOLD & POOCK 15.—*B. cf. romingeri* figured, SCHWARZBACH 124.

EOORTHIDAE.

†*Eoorthis* (?) *saishoensis* sp. n. p. 528 Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. 3 9.—*E. genus discussed* p. 202, *primordialis*, var. *multicostatae*, var. *paucicostatae*, var. *resupinata* vars. n. pl. xii, p. 203 Cambrian Spain, SAMPELAYO Explic. del nuevo Mapa geol. Esp. Madrid 1934.

PLECTORTHIDAE.

†*Munella fritschii* figured, SIMIĆ 131 p. 118.

†*Platystrophia biforata* figured, MAILLIEUX 90 pl. ii.—*P. cf. biforata* figured, LAMONT 78 p. 3.

†*Plectorthis* sp. 1 p. 16, sp. 2 p. 17 figured, CHANG 12.—*P. thraivensis* figured, LAMONT 78 p. 1.—*Orthis* (*P.*) *stracheyi* var. *reedi* var. n. p. 34 Ordovician Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia (1913-14) Bologna 5.

SKENIDIIDAE.

†*Skenidium areola* figured, TORLEY
141 p. 126.

ORTHIDAE.

†*Nicolella actoniae* figured pl. ii,
MAILLIEUX 90.—*N. actoniae* var.
asteroidea figured, LAMONT 78 p. 1.—
Orthis (*N.* ?) sp., REED 114 p. 35.

†*Orthidae* fam. emended, GALLWITZ
43 p. 81.

†*Orthis calligramma* figured p. ii,
MAILLIEUX 90.—*O. calligramma* var.
sinensis var. n. p. 7, var. *hupehensis*
var. n. p. 8, var. *nanchanghsiensis* var. n.
p. 9, *carausii* p. 10, *neichiaensis* sp. n. p. 11,
ellipsoides sp. n. p. 13, *calligramma* var.
intercalare var. n. p. 14, cf. *unguis*, cf.
calligramma var. *subplicata* p. 15,
Ordovician China, CHANG Palaeont.
sinica B 1 3.—*O. marhaumensis* sp. n.
p. 34, cf. *calligramma* p. 35 Ordovician
Kashmir, REED Palaeont. Ind. Calcutta
21 2.—*O. distorta* p. 41, *occlusa* p. 42,
praecursor, cf. *neglecta* p. 43, cf.
minuscule p. 44, *tenuissima*, *trigeri* p. 46,
sp. p. 47, *dimera* var. *armoricana* var. n.
Devonian France, LE MAÎTRE Mém. Soc.
géol. nord Lille 12.—*O. nipponica* sp. n.
Ordovician China, Korea p. 339, *ortham-*
bonites figured p. 340, KOBAYASHI
J. Fac. Sci. Univ. Tokyo geol. Min. 3
8.—*O.* cf. *calligramma* figured, LAMONT
78 p. 3.—*O. calligramma* p. 33 figured,
GORTANI & MERLA 47.

†*Ptychopleurella bouchardii* figured,
LAMONT 78 p. 3.

DINORTHIDAE.

†*Orthis* (*Dinorthis* ?) cfr. *flabellulum*
p. 41, *thakil* var. *convexa* p. 42, cfr.
porcata p. 43, figured, GORTANI &
MERLA 47.

CLITAMBONACEA.

DELTATRETIDAE.

†*Pomatotrema shinsoensis* sp. n.
Ordovician Manchuria and Korea,
KOBAYASHI Japan. J. Geol. Geogr.
Tokyo 11 3-4 p. 166.—*P. shinsoensis*
p. 529 figured, KOBAYASHI 73.

CLITAMBONITIDAE.

†*Clitambonites tibetana* sp. n. p. 48
Ordovician Caracorum, GORTANI &
MERLA Sped. ital. Filippi nell' Himālaia
5.

DALMANELLACEA.

DALMANELLIDAE.

†*Dalmanella missendenensis* sp. n.
p. 116 Palaeozoic Bucks., STRAW Summ.
Prog. Geol. Surv. Gt. Brit. 1932.—
D. ? cf. *pauciplicata* p. 84, *bergica*
emend. p. 85, *interlineata* p. 88, *whid-*
bornei sp. n. p. 90, Lower Carboniferous
Germany, GALLWITZ Abh. preuss. geol.
LdAnst. N.F. 141.—*Dalmanella* cf.
elegantula p. 17 figured, CHANG 12.—
Orthis (*D.*) cfr. *testudinaria* p. 35, var.
himalaica, var. *orientalis* var. n. p. 36,
var. *alternans* var. n. p. 37, *De-Filippii*
sp. n. p. 38, *tibetica* p. 39, *chisilica* sp. n.
p. 40 Ordovician Caracorum, GORTANI
& MERLA Sped. ital. Filippi nell'
Himālaia Bologna 5.

†*Dalmanellinae* subfamily emended,
GALLWITZ 43 p. 83.

†*Onniella distincta* sp. n. Silurian
Greenland, POULSEN Medd. Grønland
72 1 p. 14.

WATTSELLIDAE.

†*Parmorthis basalis* figured, LAMONT
78 p. 1.

RHIPIDOMELLIDAE.

†*Platyorthis circularis* p. 427 figured,
BILLINGS & CLEEVES 8.

†*Rhipidomella ellsworthi* p. 9, figured,
BUBLICHENKO 11.—*R. michelini* var.
minor p. 17 figured, CHU 14.—*R.* cfr.
cora figured, OZAKI 103 p. 92.—*R.*
michelini p. 37, var. *divaricata* p. 41,
var. *mosana* var. n. p. 43, Lower Car-
boniferous Belgium, DEMANET Mém.
Mus. Hist. nat. Belge 61.—*R. michelini*
figured pl. vii, MAILLIEUX 90.—*R.*
(*Rhipidomella*) *michelini* p. 93, var.
plicata var. n. p. 96 Lower Carboniferous
Germany, GALLWITZ Abh. preuss. geol.
LdAnst. N.F. 141.

†*Rhipidomella* (*Thiemella*) aff. *ville-*
novia p. 97, figured, GALLWITZ 43.

HETERORTHIDAE.

†*Harknessella vespertilio* figured,
MAILLIEUX 90 pl. ii.

SCHIZOPHORIIDAE.

†*Aulacophoria keyserlingiana* p. 60
figured, DEMANET 27.

†*Enteleles subaequivalvis*, *waageni*, *tschernyschewi*, *contractus*, *subaequilateralis*, *haugi* p. 19 recorded, *waageni* var. *nudum* var. n., var. *imperans* var. n. p. 21, *tschernyschewi* var. *terebratulopsis* var. n., *haugi* var. *globosus* var. n., *elegans* sp. n., *spinosisus* sp. n. p. 22 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.—*E. nodosus* sp. n. p. 65, Permian Madagascar, ASTRE Ann. Geol. serv. Mines Madagascar 4.

†*Orthotichia* cf. *morganiana* p. 9, *derbyi* p. 10, figured, GRABAU 51.

†*Parenteleles cooperi* p. 426 figured, NEWELL 100.

†*Schizophoria*? sp. ind., BILLINGS & CLEEVES 8 p. 433.—*S.* sp. ind., SIMIĆ 131 p. 122.—*S. striatula* figured, TORLEY 141 p. 126.—*S. provulvaria* figured, MAILLIEUX 90 pl. iv.—*S. texana* p. 425 figured, NEWELL 100.—*S. indica* recorded, HERITSCH 63 p. 26.—*S.* cf. *bistriata* p. 48, *striatula* p. 49, LE MAÎTRE 83.—*S.* cf. *juresanensis* p. 6, *indica* p. 7, figured, GRABAU 51.—*S. fallax* figured, LAMONT 78 p. 1.—*S. resupinata* p. 45, var. *lata* p. 50, var. *rotundata* p. 51, var. *dorso-sinuata* var. n. p. 53, var. *lyelliana* p. 54, var. *gibbera* p. 55, var. *convivens* p. 56, var. *palliata* var. n. p. 58, var. *pinguis* var. n. p. 59, var. *gigantea* var. n. p. 60 Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 6 1.—*S. swallovi* figured, OZAKI 103 p. 93.—*S.* (?) *indica* p. 9, FREDERICKS 39.—*S.* cf. *indicaeformis* figured, *indica*, *corallina*? p. 278, *parenteletiformis* p. 279, GORTANI & MERLA 47 p. 246.—*S. resupinata* figured, GALLWITZ 43 p. 92.

SUBORDER PENTAMEROIDEA.

SYNTROPHIACEA.

CLARKELLIDAE.

†*Clarkella vulgaris* sp. n. p. 530, var., *flora* sp. n. p. 531, *floriformis* sp. n. p. 532 Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. 3 9.

†*Syntrophina* genus discussed, KOBAYASHI 71 p. 163.

†*Syntrophinella* gen. n. type *S. typica* sp. n. p. 164, ULRICH & COOPER in KOBAYASHI Ordovician U.S.A.,

elliptica, *deltoides* spp. n. Ordovician Korea, Manchuria, KOBAYASHI Japan. J. Geol. Geogr. Tokyo 11 3-4.

SYNTROPHIIDAE.

†*Syntrophia* genus discussed, KOBAYASHI 71 p. 163.

PENTAMERACEA.

PORAMBONITIDAE.

†*Porambonites wahl* sp. n. Ordovician Esthonia, HENRICHSON Arch. Naturk. Estlands Dorpat 10 3 p. 159.

PENTAMERIDAE.

†*Barrandella* discussed, *sublinguifer* figured, TORLEY 141 p. 91.

†*Camarophoria* sp. ind. SIMIĆ 131 p. 121.—*C. globulina* figured p. 161 FREDERICKS 37.—*C. selliformis* sp. n. p. 13, *subglobulina* p. 15, *mutabilis* p. 16, Permian China, GRABAU Palaeont. sinica B 3 3.—*C. schlotheimi* p. 70, *mutabilis* var. *spissa* var. n. p. 71, Permian Madagascar, ASTRE Ann. géol. Serv. Mines Madagascar 4.—*C.* described, *sutchuanensis* figured, *schlotheimi* transverse sections p. 105, GRABAU 50.—*C. edemskii* sp. n. pp. 12, 40 Permian Arctic Regions FREDERICKS Trans. Arctic Inst. Leningrad 13.—*C.* cf. *crumena* p. 241, *constricta* sp. n., *mutabilis* p. 242, var. *umbonata* var. n., var. *columba* var. n., *biplicata* p. 244, *superstes*, var. *inhornata* var. n. p. 245, Permo-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*C. semiplicata* recorded p. 20, DE GREGORIO 54.

†*Camarophorina* gen. n. type *Camarophoria antisella* Broili Permian Timor, LICHAREW C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 213.

†*Clorinda groenlandica* sp. n. Silurian Greenland, POULSEN Medd. Grønland 72 1 p. 15.

†*Conchidium nettlerothi* figured, BILLINGS & CLEEVES 8 p. 424.—*C. conchidium* figured, HADDING 57 p. 63.—*C. knighti* var. nov. (undescribed) NIKIFOROVA 101 p. 11.—*C. knighti* figured, LAMONT 78 p. 1.

†*Gypidula globa* pp. 55, 210, sp. p. 56, LE MAÎTRE 83.—*G.* cf. *coeymanensis* figured, BUBLICHENKO 11 p. 12.

†*Levicamera* [description to appear in Palaeont. sinica B 7 4], gen. n. with type *L. yunnanensis* sp. n., *athyriiformis* p. 18, figured, GRABAU 51.

†*Neogypidula* gen. n. type *Pentamerus? darvasicus* Tschern. Ur. Carboniferous Darvas, LICHAREW C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 213.

†*Parastrophia hemiplicata* recorded, WHITCOMB 147 p. 10.

†*Pentamerella athyroides* p. 159, EHLERS & KLINE 35.—*P. aratoformis* sp. n. nom. nud. Devonian Turkestan, NIKIFOROVA Mat. Centr. Sci. Geol. and Prosp. Inst. U.S.S.R. Palaeont. & Stratigr. 1 p. 11.

†Pentameridae discussed, TORLEY 141 p. 87.

†*Pentamerus* sp. ind., POULSEN 111 p. 15.—*P. multiplicatus* p. 54, *davyi* pp. 57, 209, LE MAÎTRE 83.—*P. oblongus* figured, LAMONT 78 p. 1.—*P. n.* sp. aff. *oblongus* p. 49, Ordovician Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.—*P.* discussed, *cassideus* p. 89, TORLEY 141.

†*Pentamerus (Gypidula) acutolobatus* p. 56, *formosus* p. 57, LE MAÎTRE 83.

†*Sieberella* genus discussed p. 91, *biplicata*, *acutolobata*, *rectangularis* sp. n., *triplicata* sp. n. p. 92, *quadruplicata* sp. n., *brevirostris* p. 93, Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

STROPHOMENACEA.

STROPHOMENIDAE.

†*Christiania tenuicincta* figured, MAILLIEUX 90 pl. ii.

†*Derbyia depressa* sp. n. p. 89, Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.—*D. buchi* described, RUIZ 119 p. 14.—*D. ? regularis* p. 288, aff. *haemisphaerica* ? p. 289, GORTANI & MERLA 47.—*D. kayseri* sp. n. p. 99, sp. p. 100 Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

†*Gemmellaria acropedion* p. 20 figured, RUIZ 119.

†*Geyerella gemmellaroi* p. 18, *distorta* p. 20 described, RUIZ 119.

†*Kjerulfina polycyma* p. 2 figured, LAMONT 78.

†*Larium* gen. n. species *L. inventum* sp. n. p. 26, *proteum* sp. n. p. 26 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Leptaena rhomboidalis*, BILLINGS & CLEEVEs 8 p. 424.—*L. rhomboidalis*, BILLINGS & CLEEVEs 8 p. 431.—*L. rhomboidalis* figured, POULSEN 111 p. 15.—*L.* discussed, *rhomboidalis* p. 128, TORLEY 141.—*L. rhomboidalis* var. α orientation of shell during life, LAMONT 79 p. 165.—*L. rhomboidalis*, BULICHENKO 11 p. 10.—*L. rhomboidalis* var. *analoga* p. 99, GALLWITZ 43.—*L. analoga* figured p. 61, structure and transverse sections pp. 64, 66, 67, *distorta* p. 73, *sinuata* p. 74, all figured, DEMANET 27.—*L. rhomboidalis* figured, LAMONT 78 p. 3.

†*Leptaena (Plectambonites) rhomboidalis* p. 50, LE MAÎTRE 83.

†*Leptelloidea* ? sp. figured, REED 114 p. 36.

†*Leptostrophia magnifica* figured, BILLINGS & CLEEVEs 8 p. 430.

†*Mammosum* gen. n. species *M. ipsum* sp. n., *liratum* sp. n. p. 25 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Meekella ufensis* p. 26 figured, GRABAU 51.—*M. evanescens* p. 15, *uncitoides* p. 16, *irregularis* p. 17, described and figured, RUIZ 119.

†*Ombonia girtyana* sp. n. p. 286, Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.

†*Orthotetes* sp. p. 19 figured, CHU 14.—*O. wunstorfi* sp. n. p. 101, Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.—*O. guadalupensis* p. 14, *distortus* p. 15, RUIZ 119.

†*Orthotetina* sp., DEMANET 27 p. 88.—*O.* cfr. *armeniaca* p. 281, *convergens* sp. n. p. 282, *flabellum* sp. n. p. 283, var. *protracta* var. n. p. 284 Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.

†*Orthotetina (Schellwienella) crenistria* p. 111, GALLWITZ 43.

†Orthotetinae discussed p. 76, key to classification p. 77, DEMANET 27.

†*Pseudoderbyia* gen. n. type *P. netschajewi* sp. n. Lr. Permian Darvas, LICHAREW C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 14 p. 213.

†*Rafinesquina chosenensis* sp. n. p. 343 Ordovician Manchuria and Korea, sp. aff. *alternata* p. 344, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. 3 8.—*R. cf. muthensis* figured, CHANG 12 p. 18.—*R. umbrella* p. 44, cf. *aranea* p. 45 figured, GORTANI & MERLA 47.—*R. subarachnoidea* figured, LAMONT 78 p. 1.

†*Rafinesquina* (*Playfairia*) *semiglobosina* p. 165 orientation of shell during life, LAMONT 79.

†*Schellwienella umbracula* figured pl. v, MAILLIEUX 90.—*S. kweichowensis* sp. n. p. 25, Permian China, GRABAU Palaeont. sinica B 3.—*S. crenistria* figured p. 77, sp. p. 81, *ornata* sp. n. p. 83, *aspis* mut. *radialiformis* mut. n. p. 85, Lower Carboniferous Belgium, DEMANET Mém. Mus. Hist. nat. Belge 61.

†*Schuchertella pelargonata* p. 8, ? sp. p. 9, FREDERICKS 39.—*S. anonyma* sp. n. p. 279, Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.—*S. cf. S. becraftensis* figured, BILLINGS & CLEEVES 8 p. 430.—*S. umbraculum* p. 128 figured, TORLEY 141.—*S. ? striatissima* sp. n. p. 16 Silurian Greenland, POULSEN Medd. Grønland 72 1.—*S. anomala* p. 154, EHLERS & KLINE 35.—*S. fascifera* p. 91, *wexfordensis* p. 94, figured, DEMANET 27.

†*Sicilia* nom. n. for *Canavaria* and *Gemmellaria* Fabiani & Ruiz, sp. ind. p. 284, Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.

†*Socraticum* gen. n. type *S. firmum* sp. n. Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Sowerbyella* cfr. *quinquecostata* figured, POULSEN 111 p. 16.—*S. semirugata*, *undulata* figured, LAMONT 78 p. 1.—*S. transversalis* figured, LAMONT 78 p. 2.—*S. ? etheridgei* orientation of shell during life, LAMONT 79 p. 165.

†*Streptorhynchus pectiniformis* recorded, HERITSCH 63 p. 27.—*S. lenticularis* p. 20, cf. *broilii* p. 21, cf. *pelargonatus* p. 22, sp. 1 p. 23, sp. 2 p. 24

figured, GRABAU 51.—*S. crenistria* p. 9, var. *senilis* p. 11, *pelargonatus* p. 12, *pseudo-pelargonatus* p. 13 figured, RUIZ 119.—*S. senilis* p. 96, *subpelargonatus* p. 100 figured, DEMANET 27.—*S. ?* sp. indet. figured, OZAKI 103 p. 93.—*S. pelargonatus* p. 280, (?) aff. *pelargonatus* p. 281, GORTANI & MERLA 47.—*S. (Streptorhynchus) minimus* sp. n. p. 103, *pauli* sp. n. p. 104, sp. p. 106, Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

Streptorhynchus (Schuchertella) portlockiana p. 106, *paeckelmanni* sp. n. p. 107, *radialis* p. 108, cf. *radialis* p. 109, *inaequicostata* sp. n. p. 110 Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

†*Stropheodonta* discussed p. 127, *interstitialis*, *ziczac* p. 127, *nobilis*, *nodulosa*, p. 128, TORLEY 141.—*S. cincta* p. 149, *erratica* p. 150, var. *fissicosta* p. 151, var. *solidocosta* p. 153, *imitata* p. 154, EHLERS & KLINE 35.—*S. murchisoni*, *sedgwicki* figured pl. iv, MAILLIEUX 90.

†*Stropheodonta* (*Douvillina*) *interstitialis* pp. 30, 207, LE MAÎTRE 83.

†*Stropheodonta (Leptostrophia)* cf. *planulata* p. 10, BUBLICKENKO 11.

†*Strophomena rhomboidalis* figured p. 246, HENNIG 60.—*S. stephani* p. 49, LE MAÎTRE 83.—*S. sp. aff. S. incurvata* figured, KOBAYASHI 71 p. 167.—*S. chamaerops* p. 45, cf. *antiquata* p. 46, *gentilis* sp. n. p. 47 Ordovician Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia Bologna 5.

†*Strophonella funiculata* figured, BILLINGS & CLEEVES 8 p. 424.—*S. euglypha* var. *alveata* var. n. p. 2 Silurian Shropshire, LAMONT Cement, Lime & Gravel May 1934.

†*Triplecia uncata* p. 47, figured, GORTANI & MERLA 47.

THECIDEIDAE.

†*Thecidea papillata* figured pl. xvi, MAILLIEUX 90.

CHONETIDAE.

†*Chonetella ? dunbari* sp. n. p. 427 Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon Mass. 8 4.

†*Chonetes canadensis* figured p. 431, *hitchcocki* sp. n. p. 432, sp. ind. p. 433 Silurian U.S.A., BILLINGS & CLEEVES

Amer. J. Sci. New Haven (5) 28.—*C. vishnu* figured p. 171, FREDERICKS 37.—*C. hardrensis* p. 129, *minutus* p. 130 figured, TORLEY 141.—*C. emmetensis* p. 156, EHLERS & KLINE 35.—*C. granulifer* var. *stantonensis* var. n. p. 430 Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon Mass. 8 4.—*C. plebeia* p. 51, *verneuili* p. 52, *tenuicostata* p. 208, LE MAÎTRE 83.—*C. spinulostriatus* sp. n. p. 27, *latisinuatus* var. *miokouensis* p. 28, cf. *variolatus* p. 29, *chaoi* sp. n. p. 30, *hardrensis* var. *nantanensis* var. n. p. 31, sp. A p. 32 Permian China, GRABAU Palaeont. sinica B 8 3.—*C. striatella* var. nov. (undescribed), NIKIFOROVA 101 p. 11.—*C. striatella* figured, LAMONT 78 p. 4.—*C. cf. carbonaria* figured, OZAKI 103 p. 94.—*C. carbonifera*, *geinitzi* p. 5, aff. *variolata*, *uralica* p. 6, *moelleri*, *trapezoidalis* var. *alata* var. n. p. 7, sp. p. 8 Carboniferous Russia, SEMICHATOV Trans. Geol. prosp. Ser. U.S.S.R. 260.—*C. cf. rothpletzi*, *substrophomenoides* p. 270, cfr. *tenuilirata*, *glabellipunctatus* sp. n. p. 271, *huangi* sp. n. p. 272 Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*C. novascoticus* var. *missendenensis* var. n. p. 117 Palaeozoic Bucks, STRAW Summ. Prog. Geol. Surv. Gt. Brit. 1932.

†*Chonetes* (*Chonetes*) *laquessianus* p. 116, var. *angusta* p. 117, *longispinus* p. 118, *kayserianus* sp. n. p. 119, *ratingensis* sp. n. p. 120, n. sp. aff. *variolatus* p. 122, Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

†*Chonetes* (*Plicochonetes*) *crassistrius* var. *minima*, *cromfordensis* sp. n. p. 123, var. *lata* var. n. p. 125, *margaritaceus* p. 126, sp. aff. *ventricosus* p. 127, Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

†*Chonetes* (*Semenevia*) aff. *concentricus* p. 112, GALLWITZ 43.

†*Chonetes* (*Tornquistia*) *politus* p. 113, var. *intrapunctata* var. n. p. 114, *infrastriatus* sp. n. p. 116, Lower Carboniferous Germany, GALLWITZ Abh. preuss. geol. LdAnst. N.F. 141.

†*Chonetina* *papilioniformis* sp. n. p. 428, *verneuili* var. *wyandottensis* var. n. p. 429, Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon Mass. 8 4.

PRODUCTIDAE.

†*Aulosteges* aff. *medlicottianus* p. 8, FREDERICKS 39.

†*Avonia* *griphoides* p. 27, FREDERICKS 38.—*A. knighti* sp. n. p. 29.—*A. knighti* sp. n. p. 426, Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon. Mass. 8 4.—*Productus* (*A.*) *krutoyensis* nom. n. for *P. aculeatus* Davidson pars. etc. pp. 36, 49, Carboniferous Russia, SEMICHATOV Trans. geol. Prosp. Ser. U.S.S.R. 260.

†*Buxtonia* sp. FREDERICKS 39 p. 28.—*B. saranaeana* sp. n. Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2.—*B.*, FREDERICKS 38 p. 30.—*Productus* (*B.*) aff. *peruvianus* p. 37, SEMICHATOV 127.—*P. (B.) scabriculus* p. 146, var. *intermixtus* var. n. p. 162, Ur. Carboniferous France, WATERLOT Ann. soc. géol. nord Lille 57.

†*Cancrinella*, FREDERICKS 38 p. 30.—*C. cancrini* p. 20, *villiersi koninckiana* p. 21, FREDERICKS 39.

†*Chaoiella* gen. n. type *Productus gruenewaldti* Krotov, *sublaevis* pp. 27, 32, Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2.—*C.*, FREDERICKS 38 p. 31.—*Productus* (*C.*) *boliviensis* p. 19, *gruenewaldti*, var. n. p. 20, *medveditzaensis* sp. n. pp. 21, 47, *samarensis* p. 21 Carboniferous Russia, SEMICHATOV Trans. Geol. Prosp. Ser. U.S.S.R. 260.

†*Cora* sp., FREDERICKS 39 pp. 28.—*C.* discussed p. 32, *mosquensis* pp. 25, 32 = *Productus lineatus* Fredks. (non Waagen), *samarensis* sp. n. pp. 25, 32, *schellwieni* pp. 25, 32, *dorotheevi* pp. 26, 32, *alpina* sp. n. = *P. lineatus* (non Waagen) pp. 26, 32, *ferganensis* pp. 26, 32, Upper Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2.—*C. simensis* figured, FREDERICKS 37 p. 179.

†*Daviesiella* *comoides* figured pl. ix, MAILLIEUX 90.

†*Diaphragmus*, FREDERICKS 38 p. 29.

†*Dictyoclostus* *semireticulatus* var. *kamyschinensis* var. n. pp. 11, 45, var. *inca* p. 13, sp. A p. 15, *jirnoensis* sp. n. pp. 16, 46, cf. *inflatus* pp. 17, 46, *gratiosus* var. *occidentalis* p. 18 Carboniferous Russia, SEMICHATOV Trans. Geol. Prosp. Ser. U.S.S.R. 260.—*D.*

FREDERICKS 38 p. 31.—*D. pseudo-inflatus* sp. n., *karnicus* sp. n., *ilovaiskii* sp. n., *occidentalis* pp. 28, 33, Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2.—*D. genuinus* var. *typicus* p. 176, *g. inflatus* p. 177, figured, FREDERICKS 37.—*Productus* (*D.*) *semireticulatus* pp. 150, 168, var. *barroisi* var. n. p. 152, *carbonarius* pp. 154, 167, Ur. Carboniferous France, WATERLOT Ann. Soc. géol. nord Lille 57.

†*Echinoconchus elegans* p. 114, *punctatiformis* p. 124, SIMIĆ 131.—*E. decemundatus* sp. n. p. 45 Permian China, GRABAU Palaeont. sinica B 3.—*E.*, FREDERICKS 38 p. 30.—*E. iakolevi* figured, FREDERICKS 37 p. 175.—*Productus* (*E.*) *elegans* p. 149, WATERLOT 144.—*Productus* (*E.*) *punctatus* var. *elongata* var. n. pp. 33, 49, *fasciatus* pp. 33, 34, *elegans*, *subpunctatus* p. 35, Carboniferous Russia, SEMICHATOV Trans. Geol. Prosp. Ser. U.S.S.R. 260.

†*Eomarginifera*, FREDERICKS 38 p. 31.—*Productus* (*E.*) *longispinus* p. 156, WATERLOT 144.—*Productus* (*E.*) aff. *Productus* sp. Tsch. p. 21, ex group *longispinus* pp. 22, 47, SEMICHATOV 127.

†*Gigantella*, FREDERICKS 38 p. 30.—*G. striata* pp. 26, 32 = *Productus striatus* (part) auctt., FREDERICKS 38.

†*Girasia* subgen. n. of *Strophalosia* type *superlegans* sp. n. p. 21 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Jurezania*, FREDERICKS 38 p. 31.

†*Kozłowska* subgen. n. of *Productus* type *Productus capacei* d'Orb. Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2 p. 29.

†*Krotovia koejim-toeroveiensis* sp. n. Ur. Carboniferous Russia, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2 pp. 175, 185.—*K.*, FREDERICKS 38 p. 29.

†*Leptalosia radicans* p. 158, EHLERS & KLINE 35.

†*Lino-productus lineatus* figured, SIMIĆ 131 p. 114.—*L. cora*, var. *stuckenbergi* var. n. p. 23, var. *parva* var. n. pp. 24, 47, cf. *lineatus* p. 25, cf. *tenuistriatus*, *pseudoprattenianus* sp. n. pp. 27, 48, *aagardiiformis* sp. n.

pp. 29, 48, Carboniferous Russia, SEMICHATOV Trans. Geol. Prosp. Ser. U.S.S.R. 260.—*Productus* (*L.*) *cora* pp. 158, 167, WATERLOT 144.—*Productus* (*L.*) *cora*, *tenuistriatus* figured p. 42, GRABAU 51.

†*Marginifera uralica*, *typica* var. *septentrionalis* p. 40, *schellwieni* pp. 40, 49, *timanica* p. 42, SEMICHATOV 127.—*M. longispina* var. *orientalis* p. 47, cf. *timanica* p. 49, *lipoensis* sp. n. p. 51, *morrisi* p. 52, *typica* var. *septentrionalis* p. 55, sp. p. 56 Permian China, GRABAU Paleont. sinica B 3.—*M. uralica*, *schellwieni* p. 180 figured, FREDERICKS 37.—*M. typica* var. *genuina* figured, *carniolica* p. 120, SIMIĆ 131.—*Productus* (*M.*) *marginalis* p. 160, WATERLOT 144.

†*Paramarginifera tuberculataeformis* p. 181 figured, FREDERICKS 37.

†*Plicatifera lipoensis* sp. n. Permian China, GRABAU Palaeont. sinica B 3 p. 46.—*P.*, FREDERICKS 38 p. 30.

†*Proboscidea lata*, sp. p. 39, SEMICHATOV 127.—*P. alpina* figured, SIMIĆ 131 pp. 106, 110.—*P.*, FREDERICKS 38 p. 30.

†*Productella* n. sp. 2 aff. *goergesi* p. 102, n. sp. 3 aff. *goergesi* p. 103 figured, GALLWITZ 43.—*P. subaculeata* p. 53, LE MAÎTRE 83.—*P. productoides* p. 130, *subaculeata*, *fragaria* p. 132 figured, TORLEY 141.

Productus kinlingensis sp. n. p. 21, Lower Carboniferous China, CHU Mon. Nat. Inst. Geol. Acad. Sin. Nanking 2.—*P.* sp. indet. pp. 95, 96 figured, OZAKI 103.—*P. pseudogratiolus* nom. n. for *P. gratiolus* Schellwien non Waagen, p. 216, cfr. *praelectus*, *punctatus* p. 218, *semireticulatus*, *tenuistriatus*, *grünwaldti* p. 219, *incisus* p. 221, *curvirostris* p. 221, *remuensis* sp. n. p. 221, *altimontanus* sp. n. p. 223, ? *pusillus*, cfr. *depressus* p. 224, *aagardi* p. 225, cfr. *waagenianus* p. 226, *spiralis* p. 260, aff. *gratiolus*, *cancriniformis* p. 261, *purdoni* p. 262, *dorsiger* sp. n., *abichi* p. 263, *gangeticus*, *mongolicus* p. 265, *wallacei* var. *burmana*, *himalayensis* p. 266, aff. *chengyaoenensis*, *cardinalis* sp. n. p. 267, *jisuensis*, *typicus* var. *elongatus* p. 268, *spinosocostatus*, sp. ind. aff. *spinosocostatus* p. 269, Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*P. giganteus* figured, LAMONT 78 p. 1.—

P. gallatinensis var. *madagascariensis* var. n. p. 66, *abichi* var. *ankitokazo* var. n. p. 68, Permian Madagascar, ASTRE Ann. géol. serv. Mines Madagascar 4.—*P. callocreneus* p. 123, *yangtzeensis* p. 124, SIMIĆ 131.—*P. curvirostris* p. 33, *gratiosus* p. 34, *gratiodentalis* nom. n. for *P. gratiosus* var. *occidentalis* Schellwien p. 36, *manchuricus* p. 38, *yangtzeensis* p. 39, *davidi* p. 40, sp. A p. 42, cf. *magniplicatus* p. 43, sp. c, d p. 44, sp. e p. 45 Permian China, GRABAU Palaeont. sinica B 3.—*P.*, FREDERICKS 38 p. 31.—*P. semireticulatus* pls. vii, viii, *sublaevis* figured pl. vii, *cora* pl. viii, *corrugatus*, *vaughani* pl. ix, MAILLEUX 90.—*P.* aff. *longispinus* figured, TORLEY 141 p. 132.—*P. grünevaldti*, var. p. 115 figured, SIMIĆ 131.—*P. yangtzeensis* pp. 103, 109, *callocreneus* pp. 104, 109 figured, SIMIĆ 131.—*P. (Productus) yangtzeensis* p. 28, *richthofeni* p. 35, *callocreneus* sp. n. p. 37, Permian Serbia, HERITSCH Bull. Serv. géol. Roy. Yougoslavie Beograd 3 1.

†*Productus (Jurezania) juresanensis*, SEMICHATOV 127 p. 38.

†*Productus (Krotovia) pseudoaculeatus*, *krasnopolskyanus*, *curvirostris* p. 36, SEMICHATOV 127.

†*Productus (Striatifera) prinadei* p. 39 figured, HERITSCH 63.

†*Productus (Thomasia) pseudomedusa* var. *donensis* var. n. p. 30, *pseudoartiensis* p. 31, Carboniferous Russia, SEMICHATOV Trans. Geol. Prosp. Ser. U.S.S.R. 260.

†*Pustula*, FREDERICKS 38 p. 30.—*Productus (P.) interruptus* p. 147, *piscariae* sp. n. p. 164, *rimberti* sp. n. p. 168, Ur. Carboniferous France, WATERLOT Ann. soc. géol. nord Lille 57.—*P. (P.) komyschani* sp. n. nom. nud., LICHAREW 86 p. 170.

†*Ruthenia granulifera* pp. 18, 39, *morpha typica* var. n. pp. 18, 39, *morpha gibbosa* var. n. pp. 19, 39, *morpha spitzbergensis* var. n. pp. 19, 39, ? sp. p. 27, aff. *purdoni* p. 28 Permian Arctic Regions, FREDERICKS Trans. Arctic Inst. Leningrad 13.—*R.*, FREDERICKS 38 p. 29.

†*Sowerbina* discussed [in Russian], FREDERICKS 38 p. 29.—*S. notticiensis* sp. n. pp. 16, 39, Permian Arctic Regions, FREDERICKS Trans. Arctic Inst. Leningrad 13.

†*Striatifera*, FREDERICKS 38 p. 31.

†*Strophalosia* cf. *longa* p. 56 figured, GRABAU 51.—*S. paradoxa*, FREDERICKS 39 p. 29.

†*Thomasella plicatiliformis* sp. n. pp. 173, 185, Ur. Carboniferous Russia, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2.—*T.* discussed [in Russian], FREDERICKS 38 p. 29.

†*Thomasia*, FREDERICKS 38 p. 29.—*T. pseudomedusa juravskii* var. n. Ur. Carboniferous Petschora Land, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2 pp. 174, 185.

†*Tolmatchoffia* gen. n. type *Productus robustus* Tolmatchoff Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2.—*T.*, FREDERICKS 38 p. 31.

†*Waagenoconcha* (?) *kiangsuensis* sp. n. p. 24 Lower Carboniferous China, CHU Mon. Nat. Inst. Geol. Acad. Sin. Nanking 2.—*W.* aff. *humboldti*, SIMIĆ 131 p. 123.

RICHTHOFFENIIDAE.

†*Lepsius* gen. n. type *L. favoritus* sp. n. p. 24 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Megalorhynchus marii* recorded p. 20, *minimus* sp. n. p. 23, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Richthofenia* sp. ind. figured, SIMIĆ 131 p. 122.—*R. communis*, form. *typica* p. 28, form. *compressa*, *spinulosa*, form. n., *sicula* p. 29 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Scacchinella variabilis* p. 20 recorded, var. *erecta* var. n. p. 24 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Tegulifera* sp. ind. aff. *deformis* p. 226 figured, GORTANI & MERLA 47.

OLDHAMINIDAE.

†*Adriana* gen. n. type *A. osiensis* sp. n. p. 29 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Digitia* subgen. n. of *Lyttonia* type *angustata* sp. n. p. 32 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Imperia* subgen. n. of *Lyttonia* type *princeps* sp. n., var. *glomerata* var. n. p. 31 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Irma* subgen. n. of *Lyttonia* type *biolata* sp. n. p. 32 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.—*L. sp. ind.* SIMIÓ 131 p. 122.—*L. richthofeni* figured, MASHKO 92 p. 182.—*L. nobilis* described, DE GREGORIO 54 p. 30.

†*Oldhamina* figured p. 247, HENNIG 60.

†*Pirgula* subgen. n. of *Lyttonia* type *pedicula* sp. n. p. 30 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Prisca* subgen. n. of *Lyttonia* type *fasciculata* sp. n. p. 31 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Stila* subgen. n. of *Lyttonia* type *paupera* sp. n. p. 32 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Vincia* subgen. n. of *Lyttonia* type *asymmetrica* sp. n. Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52 p. 31.

ORDER TELOTREMATA.

RHYNCHONELLACEA.

CAMAROTOECHIIDAE.

†*Camarotoechia omaliusi, dumonti* figured pl. vi, MAILLIEUX 90.—*C. nympa* p. 210, LE MAÎTRE 83.—*C.* described p. 98, *chouteauensis* transverse sections p. 99, GRABAU 50.—*C. wynnii* p. 57 figured, GRABAU 51.—*C. borealis* figured p. 3, LAMONT 78.—*C. kinlingensis* p. 25 figured, CHU 14.—*C. glomerata* figured, STRAW 139 p. 118.—*C. aff. oriskania* p. 13 figured, BUBLICHENKO 11.—*C. nucula* figured, HADDING 57 p. 63.—*C. sp.* figured, GUNNELL 56 p. 298.

†*Eatonia* described, GRABAU 50 p. 98.

†*Goniophoria* described, GRABAU 50 p. 102.

†*Hypothyridina* genus described, GRABAU 50 p. 101.—*H. cuboides* figured pl. vi, MAILLIEUX 90.

†*Hypothyris gregeri*, BUBLICHENKO 11 p. 17.—*H.* genus discussed, *procuboides* p. 86, *demissa* sp. n. p. 87 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.—*Rhynchonella (H.) parallelepiped* p. 62, LE MAÎTRE 83.

†*Isopoma* gen. n. type *Terebratula brachyptectum* p. 81, *xestum* sp. n. p. 82 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Leiorhynchus greenianum* transverse sections, genus described p. 99, GRABAU 50.

†*Orthorhynchula* described, GRABAU 50 p. 96.

†*Payuella* gen. n. type *P. obscura* sp. n. p. 150 Permian China, GRABAU Palaeont. sinica B 8 3.

†*Pugnax pugnax* p. 71, *condylus* sp. n., *acuminatus* p. 72, *platylobus*, *proteus* sp. n., *aptyctus* p. 73, *ephippius* p. 74 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.—*P. rudnevi* sp. n. Ur. Carboniferous Russia, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2 pp. 160, 184.—*P. moresnetensis* figured pl. vii, MAILLIEUX 90.—*P. pugnax* transverse sections p. 99, genus described p. 101, GRABAU 50.—*P. connivens* p. 247, figured, GORTANI & MERLA 47.

†*Pugnoides* described, GRABAU 50 p. 102.—*P. uta* p. 289, *loganensis* sp. n. p. 290, *tuberculatus* sp. n. p. 291, *parvulus* p. 292 Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.

†*Rhynchonella (Wilsonia) procuboides* p. 61, LE MAÎTRE 83.

†*Rhynchopora* described, *nikitini* figured, *hamburgensis* transverse sections p. 103, GRABAU 50.

†*Rhynchotrema* described, GRABAU 50 p. 97.

†*Rhynchotreta* described, GRABAU 50 p. 97.

†*Septalaria* discussed p. 74, *phillipsii* p. 75, *ascendens* p. 78, *postascendens*, *bijugata* p. 79, *physomena*, ? *crenulata*, ? *tetratoma*, ? *cuneiformis* p. 80 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Terebratuloidea trochus* sp. n. p. 248, Permo-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*T. heteroplicata* sp. n. p. 59, minor mut. α , β p. 60, *quadriplicata* sp. n. p. 63, *triplicata* p. 65, *depressa* p. 66, var. *kweichowensis* var. n. p. 67, cf. *dauidsoni* p. 69, *inflata* var. *triplicata* var. n. p. 70 Permian China, GRABAU Palaeont. sinica B 8 3.—*T.* described, *dauidsoni* figured p. 104, GRABAU 50.

†*Uncinulus timorensis* p. 24, FREDERICKS 39.—*U.* aff. *gordoni* p. 10 figured, BUBLICHENKO 11.—*U.* discussed p. 82, *paralepipipedus* pp. 81, 83, *subcordiformis* pp. 81, 84, *goldfussi*, *pentagonus*, *angularis* p. 85 figured, TORLEY 141.—*U.* *orbignyanus*, LE MAITRE 83 p. 63.—*U.* described, *theobaldi* figured, GRABAU 50 p. 100.—*U.* *rhynchonelloides* var. *paucicostata* var. n. p. 72 Permian Madagascar, ASTRE Ann. géol. serv. Mines Madagascar 4.

†*Uncinulus* (*Eatonia*) *peregrinus*, *eifeliensis* figured p. 73, DAHMER 23.

†*Uncinunellina* gen. n. type *Uncinulus theobaldi* Waagen Mid Permian China and India, GRABAU Sci. Quart. Nat. Univ. Peking 3 p. 100.

†*Wellerella osagensis* = *Pugnax uta* auct. (non Marcou) p. 155, *osagensis connivens* p. 158, *osagensis swallowiana* p. 159, *osagensis granum* p. 160, FREDERICKS 37.

†*Yunnanella* described p. 91, *symplicata* transverse sections p. 95, GRABAU 50.

†*Yunnanellina* described p. 90, *hamburyi* figured pp. 91, 95, GRABAU 50.

RHYNCHONELLIDAE.

†*Acanthorhynchia* ex. gr. *spinulosa*, sp. indet. figured, MOISSEIEV 96 p. 177.

†*Acanthothyris* ex. gr. *spinosa* figured, MOISSEIEV 96 p. 177.

†*Burmiorhynchia* described, *hsenwiensis*, *orientalis*, *subovalis*, *inaequalis* figured, GRABAU 50 p. 110.

†*Caucasella* gen. n. type *Rhynchonella trigonella* Rothpletz pp. 8, 187, 188, *pontica* sp. n. p. 188 Upper Jurassic Crimea and Caucasus, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.

†*Halorella* described, *amphitoma*, *plicatifrons*, *rectifrons* figured p. 110, GRABAU 50.—*H.* *amphitoma* p. 45, var. *varicostata*, var. *media* p. 47, BERNDT 6.

Hemithyris psittacea recorded, STIASNY 136 p. 64.

†*Hemithyris* described, GRABAU 50 p. 112.

†*Kallirhynchia* genus emended and diagnosed p. 534, transverse sections of *K. yaxleyensis* p. 535, longitudinal sections of *yaxleyensis* showing crura p. 536, MUIR-WOOD 98.

†*Maxillirhynchia* described, *sinensis* figured p. 109, GRABAU 50.

Neohemithyris gen. n. type *Rhynchonella lucida* Gould Recent Japan, YABE & HATAI Proc. Imp. Acad. Tokyo 10 9 p. 587.

†*Norella* described, GRABAU 50 p. 108.

†*Rhynchonella gemmellaroi* p. 11, PARONA 106.—*R.* *corallina*, var. *pinguis*, var. *pectunculoides*, var. *matronensis* recorded, DURAND 34 p. 316.—*R.* *ammonitica*, *curviceps* p. 177, *variabilis*, var. *fronto*, var. *major*, var. *squamiplex*, *borissiakii* sp. n. p. 178, *alberti*, *megabiensis* sp. n., *greppini*, aff. *subcostellata* p. 179, *kunkaensis* sp. n., n. sp. ex. gr. *subconcinna* p. 180, *vishniiovskii* sp. n., aff. *deffneri*, *almaensis* sp. n. p. 181, *persinuata*, *bodrakensis* sp. n., *yaltaensis* sp. n., *triquetra* p. 182, aff. *triquetra* var. *boeseana*, n. sp. indet., *sparsicosta*, *orbignyana*, *arolica*, *dilatata* p. 183, ex. gr. *hoheneggeri*, *suessi*, aff. *suessi* var. *corallinoidea*, *malbosi* var. *chomeracensis* p. 184, aff. *atropha*, *acuta*, *ringens*, *acutiloba*, *media*, *spathica*, s. nov. var. *prometei* var. n. p. 185, *alemanica*, cf. *arcuata*, ex. gr. *tetraedra*, *corallina*, var. *neocomiensis*, *moeschi* p. 186, *astieriana*, aff. *inconstans*, *pinguis*, *baksanensis* sp. n. *caucasica* p. 187 Jurassic Crimea and Caucasus, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.—*R.* *fromenteli*, *humilis* Maire, figured specimens, NASANS 99 p. 138.—*R.* *quadriplicata*, *walkeri* p. 69, ROQUEFORT 116.—*R.* *fuggeri* var., *orientalis* p. 56, *familiaris* p. 57, cf. *amalthi* p. 68, *deffneri*, *gryphitica*, *acuta* p. 69, *variabilis* p. 70, BERNDT 6.—*R.* *tetraedra* figured pl. xiv. MAILLIEUX 90.—*R.* *varians* figured, STOLL 137 p. 7.—*R.* *microrhynchia*,

deflexa p. 58, *amalthaea* p. 59, *kuschvensis* p. 60, LE MAÎTRE 83.—*R. compressa*, *plicatilis* var. *kunthi* p. 113 recorded, HÄNTZSCHEL 58.—*R. plicatoides* figured, COLLIGNON 16 p. 10.—*R. trinodosi* p. 8, cf. *attilina*, sp. ind. aff. *semiplecta* p. 10, SCHNETZER 122.—*R.* cf. *lata* p. 226, BONČEV 9.—*R. ala* recorded, SCHÖNFELDER 123 p. 96.—*R.* described, GRABAU 50 p. 111.—*R.* cf. *dunensis* p. 72, DAHMER 23.—*R. sosiensis* p. 20 recorded, *fugiens* sp. n. p. 22 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.—*R.* cf. *curviceps*, *bouchardi*, *batalleri*, *meridionalis*, sp. nov., p. 35 recorded, DUBAR 32.—*R.* cf. *rimosa*, *nerina* p. 597, *obsoleta*, cf. *variabilis* p. 606 recorded, DUBAR 29.—*R. formosa*, *borealis* var. *diodonta* p. 15 figured, BUBLICHENKO 11.

Rhynchonella psittacea figured, CORI 19 p. 142.—*R. psittacea* recorded pp. 480, 482, ARNDT & GRIEG 3.

†*Rhynchonella* (*Austriella*) *delicatula*, SCHNETZER 122 p. 11.

†*Rhynchonella* (*Norella*) *refractifrons*, SCHNETZER 122 p. 11.

DIMERELLIDAE.

Neatretia gnomon recorded p. 483, ARNDT & GRIEG 3.—*N. gnomon* figured, CORI 19 p. 142.

†*Rhynchonellopsis yailensis* sp. n. var. *pœlincevi* var. n. p. 188 Mid. Jurassic Crimea, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.

ATRYPACEA.

ATRYPIDAE.

†*Atrypa reticularis* recorded, BUBLICHENKO 11 p. 26.—*A. reticularis* figured, LAMONT 78 p. 1.—*A. zonata* p. 63, *granulifera* p. 64, *reticularis* pp. 65, 211, *aspera* p. 65, *sogdiana* p. 67, LE MAÎTRE 83.—*A.* discussed p. 120, *reticularis*, *desquamata* p. 123, *globularis*, *circularis*, *aspera*, sp., *explanata* p. 124 figured, TORLEY 141.—*A. ? barbata* sp. n. p. 17, *reticularis* p. 18, Silurian Greenland, POULSEN Medd. Grønland 72 1.—*A.* cf. *A. reticularis* p. 425, ? *reticularis* p. 433, BILLINGS & CLEEVES 8.—*A. desquamata* figured p. 75, *reticularis*, var. *interrupta*, *desquamata* mut. *hunanensis*, mut. *kansuensis*, mut. *magna*, mut. *alpha*, mut. *beta*, var. *auriculata*, *peshiensis*, *richthofeni*,

bodeni, *douvillii*, *aspera*, var. *kwangsiensis*, var. *changuliensis* p. 76, *sinensis* figured, *arimaspus* p. 77, GRABAU 50.

†*Atrypa* (*Atrypina* ?) *interlineata* sp. n. p. 50 Ordovician Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.

†*Atrypa* (*Carinatina*) *arimaspus* (= *Orthisia davyi* Barrois), LE MAÎTRE 83 pp. 66, 211.

†*Dayia* described, GRABAU 50 p. 234.

†*Glassia beyrichi* figured, TORLEY 141 p. 125.—*G.* described p. 234, *obovata* spirals p. 235, GRABAU 50.—*Atrypa* (*G.*) *obovata* p. 68, LE MAÎTRE 83.

†*Karpinskia rhenana* p. 125 figured, TORLEY 141.

†*Kwangsiella* described [= *Kwangsia* Grabau 1931], GRABAU 50 p. 82.

†*Lissatrypa* described p. 234, GRABAU 50.

†*Zygospira* described, p. 82, *Z. modesta* figured p. 81, GRABAU 50.—*Z. modesta* figured, HENNIG 60 p. 249.

COELOSPIRIDAE.

†*Coelospira concava* figured p. 81, *C.* described, GRABAU 50 p. 83.

†*Leptocoelia* sp. ind. figured, BILLINGS & CLEEVES 8 p. 436.—*L.* described, GRABAU 50 p. 83.

†*Vitulina* described, GRABAU 50 p. 83.

SPIRIFERACEA.

SPIRIFERIDAE.

†*Adolfia* described, GRABAU 49 p. 408.

†*Ambocoelia* cf. *urii* p. 86, cf. *planoconvexa* p. 88 figured, GRABAU 51.—*A.* described and figured, GRABAU 49 p. 418.—*A. girtyi* sp. n. Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.

†*Brachythyris utahensis* sp. n. Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.—*B. panduriformis* pp. 162, 184, p. *uralica*, p. *ufensis* p. 164 figured, FREDERICKS 37.

†*Brachythyris shanshiensis* sp. n. Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.—*B. quadriradiatus* p. 169 figured, FREDERICKS 37.—*B. shanshiensis* assigned to genus *Eudoxina*, FREDERICKS 38 p. 33.—*B.* sp. aff. *Spirifer distefanii* p. 11, FREDERICKS 39.—*B.* described, GRABAU 49 p. 404.

†*Choristites* genus discussed, FREDERICKS 38 p. 33.—*C.* described, GRABAU 49 p. 401.—*C.* distinguished from *Munella* and *Eochoristites*, CHU 14 p. 30.—*Spirifer* (*C.*) *pavlovi* figured, OZAKI 103 p. 96.

†*Cryptospirifer* described, GRABAU 49 p. 405.

†*Cyrtia* structure described and figured, GRABAU 49 p. 413.

†*Darvasia* gen. n. type *D. edelsteini* sp. n. Ur. Carboniferous Darvas, LICHAREV C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 212.

†*Delthyris kunjaki* sp. n. nom. nud. Devonian Turkestan, NIKIFOROVA Mat. Centr. Sci. Geol. & Prosp. Inst. U.S.S.R. Palaeont. and Stratig. 1 p. 11.—*D.* described, GRABAU 49 p. 409.

†*Eliva lyra elegantula* pp. 166, 184, *lyra mexicana* pp. 167, 184, *lyra occidentalis* pp. 168, 184 figured, FREDERICKS 37.

†*Ella substricta* figured, FREDERICKS 37 p. 162.

†*Emanuella* described and figured, GRABAU 49 p. 418.

†*Eochoristites* subgen. n. of *Choristites* type *E. neipentaisensis* sp. n. pp. 28, 31, mut. α p. 36, mut. *transversa* mut. n. p. 37, var. *lungtanensis* var. n. p. 39, *leei* sp. n. p. 40, *elongata* sp. n. p. 42, sp. 1 p. 44, sp. 2, 3, p. 46, Lower Carboniferous China, CHU Mon. Nat. Inst. Geol. Acad. Sin. Nanking 2.

†*Eospirifer quinqueplicatus* sp. n. p. 18 Silurian Greenland, POULSEN Medd. Grønland 72 1.—*E. viator* var. nov. (undescribed) NIKIFOROVA 101 p. 11.—*E.* described, GRABAU 49 p. 406.—*Spirifer* (*E.*) *rollandi* p. 71, LE MAÎTRE 83.—*Spirifer* (*E.*) *solitarius* figured p. 50, MAILLIEUX 90.

†*Fredericksia muni* sp. n. Ur. Carboniferous Russia, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2 pp. 170, 184.

†*Indospirifer* described, GRABAU 49 p. 399.

†*Martinia uralica*, var. *longa*, *semiglobosa* p. 235, *subtriquetra* nom. n. for *triquetra* Tschern. non Gemmellaro p. 236 Permo-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippinell' Himàlaia 5.—*M. lamellosa*, *polymorpha*, *cornelia*, *acuminata*, *orbicularis*,

affinis p. 18, *umbonata* p. 19 recorded, DE GREGORIO 54.—*M.* described and figured, GRABAU 49 p. 419.—*M. lata* p. 297, sp. figured p. 298, GUNNELL 56.—*M. incerta* p. 88, cf. *uralica* p. 90, *mongolica* p. 92, sp. p. 94, GRABAU 51.

†*Martiniella* described and figured, GRABAU 49 p. 420.—*M.* discussed, *chinglungensis* sp. n. p. 48, mut. *major* mut. n. p. 50, var. *elongata* var. n. p. 52 Lower Carboniferous China, CHU Mon. Nat. Inst. Geol. Acad. Sin. Nanking 2.

†*Martiniopsis orientalis* p. 94, *convexa* p. 96, *inflata* p. 98, cf. *lutugini* p. 99 figured, GRABAU 51.—*M.* described and figured, GRABAU 49 p. 420.—*M. uralica*, *laticollis* sp. n. p. 233, n. sp. aff. *convexa* p. 234, ? *orientalis* p. 235, Permo-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippinell' Himàlaia 5.

†*Mucrospirifer* gen. n. type *Spirifer mucronatus* Conrad. Devonian U.S.A., GRABAU Sci. Quart. Nat. Univ. Peking 2 3 p. 408.

†*Munella uralica* sp. n., (?) *supramosquensis pseudopanduriformis* var. n. pp. 165, 184 Ur. Carboniferous Petschora Land, FREDERICKS Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2.—*M.* genus discussed, *gobicus*, *mansuyi*, *norini*, *yanghukonensis* Chao = *Munella sowerbyi* Fischer, *chaoi* nom. n. for *Munella sowerbyi* Chao non Fischer Ur. Palaeozoic Eurasia, FREDERICKS Mat. Centr. Sci. Geol. & Prosp. Serv. U.S.S.R. 2 p. 33.—*M.* distinguished from *Choristites* and *Eochoristites*, CHU 14 p. 30.

†*Neophricadothyris* gen. n. type *Squamularia asiatica* Chao Ur. Carboniferous Fergana, LICHAREW Bull. Geol. Soc. China Peking 13 2 p. 175, also in C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 213.

†*Neospirifer fasciger* mut. *moosakheilensis* p. 9, *bambadurens* (? = *N. cameratus* Tschern.) p. 10, *fasciger* p. 29, FREDERICKS 39.—*N. fasciger* p. 119, SIMIĆ 131.

†*Paeckelmanella* subgen. n. of *Spirifer* type *Spirifer dieneri* Tschern. Ur. Carboniferous Ural Mts., LICHAREV C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 212.

†*Platirachella* described, GRABAU 49 p. 406.

†*Platyspirifer* described, GRABAU 49 p. 399.

†*Plectospirifer* described, GRABAU 49 p. 405.

†*Reticularia setigera* figured, GUNNELL 56 p. 298.—*R. ? undulata* p. 19, Silurian Greenland, POULSEN Medd. Grønland 72 1.—*R. filicosta* p. 171, EHLERS & KLINE 35.—*R. curvata* figured p. 62, MAILLIEUX 90.—*R. pachyrhyncha* figured pl. vi, MAILLIEUX 90.—*R.* described and figured, GRABAU 49 p. 416.—*R. rostrata* p. 236, *lineata* p. 237 figured, GORTANI & MERLA 47.—*R. inaequilateris*, *caroli*, *convexiuscula* p. 20 recorded, DE GREGORIO 54.

†*Rostrosirifer* gen. n. type *Spirifer tonkinensis* Mansuy p. 407, *speciosus*, *murchisoni*, *acuminatus*, *cultrijugatus*, *auriculatus*, ? *primevus*, ? *hercyniae* p. 408 Devonian China etc., GRABAU Sci. Quart. Nat. Univ. Peking 2 3.

†*Schizosirifer* described p. 397, GRABAU 49.

†*Spirifer prohystricus* emended p. 71, sp. cf. group of *carinatus* p. 72, DAHMER 23.—*S.* sens. str. described, GRABAU 49 p. 400.—*S. psittacus* sp. n. p. 227, var. *auriculatus* var. n., var. *planus* var. n. p. 228, *strangwaysi* var. *lata*, *tibetanus* var. *occidentalis* p. 229, var. *lata* var. n. p. 230, var. *tenuisulcatus* var. n. p. 273, sp. ind. aff. *cameratus*, *alatus* p. 274, *musakheilensis*, *lydekkeri* p. 275, Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himālaia 5.—*S. cylopterus* figured p. 17, sp. ind. p. 19, cf. *cymindis* pp. 19, 31, var. *sparsa* p. 20, sp. nov. pp. 21, 31, *hystericus-gosseleti* p. 21, *mediorhenanus* p. 23, Devonian Russia, BUBLICHENKO Trans. Geol. Prosp. Ser. U.S.S.R. 251.—*S. pellaensis* p. 293, *leidyi*, *rockymontanus*, *haydenianus*, *brazerianus* p. 294, *multistriatus* sp. n., *hammondi* sp. n. p. 295, Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.—*S.* sp. ind. p. 425, *murchisoni* p. 433, BILLINGS & CLEEVE 8.—*S. organensis* figured and described, GREGER 53 p. 130.—*S. nikitini* internal structure, LICHAREW 87 p. 443.—*S. carinatus* p. 255, var. *latissima* p. 257, var. *serdelensis* var. n. p. 258 Devonian Tripoli, PAGANI Atti Soc. ital. Milano 73 3.—*S.* discussed p. 110, *conjungens*

sp. n., *maureri* p. 111, *undiferus* p. 112, *aperturatus*, *inflatus* p. 114, *decipiens* sp. n., *applanatus* sp. n., *aviceps* p. 115, Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.—*S. bidorsalis* p. 168, *consors* p. 169, EHLERS & KLINE 35.—*S. elevatus* figured pl. ii, *elegans*, *ostiolatus* pl. v, *speciosus*, *murchisonianus* pl. vi, *konincki* pl. viii, *tornacensis* pl. x, MAILLIEUX 90.—*S. subspeciosus* p. 69, *pseudospeciosus*, cf. *inflectens* p. 70, *cabedanus* p. 212, cf. *sulcatus* p. 72, *thetidis* p. 73, *robustus* p. 74, *indifferens* p. 75, *togatus* p. 77, *sericius* p. 79, *gerolsteiniensis*, *aculeatus* p. 80, sp. p. 81, LE MAÎTRE 83.—*S.* cf. *rectangulus* p. 78, *tastubensis* p. 79, cf. *tastubensis* p. 81, cf. *quadriradiatus* p. 83, *subnikitini* p. 84 figured, GRABAU 51.—*S. musakheilensis* figured, ASTRE 5 p. 74.—*S.* sp. indet. pp. 97, 98 figured, OZAKI 103.

†*Spirifer* (*Acrosirifer*) *primaevus* figured p. 47, *pellico* p. 53, *arduennensis* p. 56, *paradoxus* p. 60, *auriculatus* p. 61, *cultrijugatus* p. 66, MAILLIEUX 90.

†*Spirifer* (*Cyrtosirifer*) *verneuli* figured p. 75, MAILLIEUX 90.

†*Spirifer* (*Hystericolites*) *excavatus* figured p. 48, *hystericus* p. 49, *carinatus*, *subcuspidatus* p. 55, MAILLIEUX 90.

†*Spirifer* (*Spirifer*) *bischofi* figured p. 51, *trigeri* p. 54, *daleidensis* p. 57, MAILLIEUX 90.

†*Spirifer* (*Theodossia*) *superbus* p. 77, LE MAÎTRE 83.

†*Spiriferella* sp. p. 85 figured, GRABAU 51.—*S.* described, GRABAU 49 p. 402.

†*Spirisosium* subgen. n. of *Spirifer* species *S. primum* sp. n. p. 23, *secundum*, *angustum* spp. n. p. 24 Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Squamularia elegantula* p. 277, GORTANI & MERLA 47.—*S.* described and figured, GRABAU 49 p. 417.—*S. asiatica* p. 71, *rostrata* p. 74, cf. *pulcherrima* p. 75, sp. p. 76 figured, GRABAU 51.

†*Syringothyris* sp. figured, GUNNELL 56 p. 297.—*S.* described and figured, GRABAU 49 p. 421.

†*Tingella* described and figured, GRABAU 49 p. 417.

†*Tylothyrus laminosa* figured pl. ix, MAILLIEUX 90.

SPIRIFERINIDAE.

†*Cyrtina uncinata, austriaca* p. 57, BERNDT 6.—*C. heteroclita* p. 125 figured, TORLEY 141.—*C. heteroclita* p. 82, LE MAÎTRE 83.—*C. lewesensis* sp. n. p. 35 Trias Yukon, LEES Trans. Canad. Inst. Toronto 20 1.—*C.* structure described and figured, GRABAU 49 p. 414.—*Spiriferina (C.) manca* p. 11, n. sp. p. 12, SCHNETZER 122.

†*Cyrtiopsis* described, GRABAU 49 p. 409.

†*Davidsonina* structure described and figured, GRABAU 49 p. 415.

†*Spiriferellina* cf. *nasuta* p. 12, FREDERICKS 39.

†*Spiriferina peracuta* figured pl. vii, *walcotti* pl. xiv, MAILLIEUX 90.—*S. mentzeli*, SOS 134 p. 292.—*S. rostrata* p. 70, *alpina*, *pinguis* p. 71, *angulata* p. 72, BERNDT 6.—*S. lipoldi*, *gregaria* p. 45, BERNDT 6.—*S. alpina*, aff. *alpina* var. *falloti*, *moeschi* var. *krimastoneroensis* var. n. p. 174, *obtusa*, *angulata*, *tumida*, cf. *tumida*, *haueri*, *walcotti* p. 175, *taurica* sp. n., *quenstedti*, nov. sp., *collenoti*, *yaltaensis* sp. n. p. 176 Lias Crimea, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.—*S. stefaninii* sp. n. p. 160, n. sp. aff. *stefaninii* p. 161, *rhodiensis* sp. n. p. 162, sp. p. 163, Trias I. of Rodi (Aegean), MIGLIORINI & VENZO Palaeontogr. ital. Siena 34.—*S. billingsi* var. *latisinuata* var. n. Permian Madagascar, ASTRE Ann. géol. serv. Mines Madagascar 4 p. 76.—*S.* described and figured, GRABAU 49 p. 420.—*S. labiata* sp. n., *cristata* p. 231, cfr. *ornata* p. 232, *vercherei* p. 276 Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*S. toulai*, *destefanoi* p. 19, *subtrigonalis* p. 20 recorded, DE GREGORIO 54.

†*Spiriferina (Mentzelia) fraasi* p. 13, cf. *mentzelii* p. 15, *palaeotypus* p. 16, SCHNETZER 122.

†*Spiriferina (Tylotoma) cristata* p. 100 figured, GRABAU 51.

ROSTROSPIRACEA.

MERISTELLIDAE.

†*Camarospira* described, GRABAU 50 p. 231.

†*Dicamara* discussed, *plebeja* p. 116, *prunulum*, *lacryma* p. 117, TORLEY 141.—*D.* described p. 231, GRABAU 50.

Merista (D.) herculea p. 85, LE MAÎTRE 83.

†*Greenfieldia* described p. 233, GRABAU 50.

†*Merista plebeia* p. 84, LE MAÎTRE 83.—*M.* described p. 230, *herculea* spirals p. 229, GRABAU 50.

†*Meristella laevis* p. 26, var. A. var. n. pp. 27, 32 Devonian Russia, BUBLICHENKO Trans. geol. Prosp. ser. U.S.S.R. 251.—*M.* described, *kütsingensis* p. 227, *walcotti* loop p. 229, GRABAU 50.—*M. tschernyschewi* p. 215, LE MAÎTRE 83.—*M.* discussed, *cingulum* sp. n. p. 117, *labrifrons* sp. n., *sector* sp. n., *ovulum* sp. n. p. 118 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Meristina* described p. 230, GRABAU 50.—*M.* discussed p. 118, *subtumida* sp. n. p. 119 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Meristospira* described, GRABAU 50 p. 231.

†*Nucleospira* described p. 232, *ventricosa jugum* p. 235, GRABAU 50.

†*Whitfieldella* described p. 232, *nitida jugum* p. 229, GRABAU 50.

UNCITIDAE.

†*Bornhardtina triangularis* sp. n., *ovalis* sp. n., *laevis* figured pl. iii Middle Devonian Eifel, WEDEKIND Z. deuts. geol. Ges. Berlin 86 1.

†*Uncinella minor* sp. n. p. 102 Permian China, GRABAU Palaeont. sinica B 8 3.—*U.* described, GRABAU 50 p. 90.

†*Uncites* described p. 88, *gryphus* loop figured p. 89, GRABAU 50.—*U. galloisi* p. 212, LE MAÎTRE 83.—*U. gryphus* figured p. 119, TORLEY 141.—*U. gryphus* figured pl. v, MAILLIEUX 90.

RHYNCHOSPIRINIDAE.

†*Eumetria verneuiliana* loop figured p. 85, genus described p. 86, GRABAU 50.

†*Homoeospira* ? sp. figured, POULSEN 111 p. 19.—*H.* figured, GRABAU 50 p. 86.

†*Hustedia acuticosta* sp. n. p. 431 Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon Mass. 8 4.—*H. remota* p. 103, *indica* p. 104, *grandicosta* p. 105 figured, GRABAU 51.—*H. mormoni* loop figured p. 85, *grandicosta* figured, genus described p. 87, GRABAU 50.—*H. nasuta* sp. n. p. 239, *pelargonium* sp. n. p. 240, cfr. *indica*, sp. ind. p. 241 Permian-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himàlaia 5.

†*Parazyga* described p. 88, *hirsuta* loop figured p. 89, GRABAU 50.

†*Ptychospira* described p. 85, GRABAU 50.

†*Retzia* described p. 84, *adrieni* figured p. 85, GRABAU 50.—*R. adrieni* figured p. 81, GRABAU 50.—*R. mojsisovicsi* p. 16, ? sp. p. 17, SCHNETZER 122.—*R. haidingeri* p. 82, *membranifera* p. 83, LE MAÎTRE 83.—*R. cf. loczyi* p. 48, BERNDT 6.

†*Retzia* (*Trematospira*) *kolihai* sp. n. p. 213 Devonian France, LE MAÎTRE Mém. Soc. Géol. nord Lille 12.

†*Rhynchospira* described p. 86, *formosa* figured p. 85, GRABAU 50.—*R. formosa* figured p. 25, *globosa* p. 26, BUBLICHENKO 11.

†*Rhynchospirina* described, GRABAU 50 p. 86.

†*Trematospira* described p. 87, *multi-striata* loop figured p. 89, GRABAU 50.

ATHYRIDAE.

†*Athyris* described p. 219, *vittata* figured p. 220, *brachidium* p. 223, GRABAU 50.—*A. cf. caeratesana* p. 24, BUBLICHENKO 11.—*A. royssii*, cfr. *pectinifera*, ? *globulina* p. 238 figured, GORTANI & MERLA 47.—*A. sub-membranacea* p. 53, var. *nucleospiroides* var. n. p. 55, Lower Carboniferous China, CHU Mon. Nat. Inst. Geol. Acad. Sin. Nanking 2.—*A. concentrica* figured p. 119, TORLEY 141.—*A. eborea* p. 163, *lens* p. 165, *sesquiplicata* p. 166, EHLERS & KLINE 35.—*A. (?) dissecta* p. 43 recorded, HERITSCH 63.—*A. timorensis* var. *mongoliensis* p. 105, *planosulcata* var. *uralica* var. n. p. 108, Permian China, GRABAU Palaeont. sinica B 8 3.

†*Athyris* (*Cleiothyridina*) *royssii* p. 110, *pectinifera* p. 111 figured, GRABAU 51.

†*Athyris* (*Seminula*) *argentea* figured, ASTRE 5 p. 80.

†*Athyris* (*Spirigera*) *royssii* figured, ASTRE 5 p. 78.

†*Athyrisina* described p. 106, GRABAU 50.

†*Cleiothyris gerardi* p. 162 figured, FREDERICKS 37.—*C. royssiana* p. 22, *r. typica*, *r. acutomarginalis* pp. 23, 29, aberr. *typica*, cf. *bajtuganensis* p. 23, *pectinifera* p. 29, FREDERICKS 39.

†*Cleiothyridina* described, GRABAU 50 p. 224.—*C. hirsuta* figured, GUNNELL 56 p. 298.

†*Composita trinuclea, farrelli* sp. n. p. 299 Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.—*C. magna* sp. n. p. 431 Ur. Carboniferous U.S.A., NEWELL J. Paleont. Sharon Mass. 8 4.—*C. described* p. 225, GRABAU 50.—*C. kaninense* sp. n. pp. 24, 40 Permian Arctic Regions, FREDERICKS Trans. Arctic Inst. Lenin-grad 13.

†*Hindella* described p. 233, GRABAU 50.

†*Hyattidina* described p. 233, *congesta* jugum p. 229, GRABAU 50.

†*Pentactinella* ? cf. *quincocostata*, SCHNETZER 122 p. 17.

†*Pexidella sturi* p. 17, SCHNETZER 122.

†*Protathyris* described, GRABAU 50 p. 224.

†*Spirigera multicostata* figured, MIGLIORINI & VENZO 94 p. 164.—*S. concentrica* figured p. 249, HENNIG 60.—*S. philomela* p. 84, LE MAÎTRE 83.

†*Spirigerella derbyi* var. *kweichowensis* var. n. p. 113, *grandis* p. 114, *interrupta* sp. n. p. 116 Permian China, GRABAU Palaeont. sinica B 8 3.—*S. described*, GRABAU 50 p. 226.

†*Tetractinella trigonella*, SCHNETZER 122 p. 17.

KONINCKIDAE.

†*Amphiclina intermedia* p. 48, BERNDT 6.

THECOSPIRIDAE.

†*Thecospira* sp. ind. aff. *tyrolensis*, SCHNETZER 122 p. 18.—*T. sp.* p. 49, BERNDT 6.

TEREBRATULACEA.

CENTRONELLIDAE.

†*Amphigenia bureauvi* described, LE MAÎTRE 82 p. 263.—*A. bureauvi* p. 216, LE MAÎTRE 83.

†*Centronella* discussed, *virgo* p. 107, TORLEY 141.—*C.* described p. 242, GRABAU 50.

†*Chascothyris* discussed p. 102, *holzapfeli* sp. n., *tschernyschewi* p. 104 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Denckmannella* discussed p. 106, *damesi*, *circularis* figured p. 107, TORLEY 141.

†*Enantiosphen* discussed p. 93, *vicaryi*, *beyrichi*, *torleyi* p. 95, *lotzi* p. 96 figured, TORLEY 141.

†*Mutationella* described, GRABAU 50 p. 112.

†*Newberria* discussed, *amygdala* p. 105, *holzapfeli* sp. n., *pentagona* p. 106 Devonian Germany, TORLEY Abh. senckenb. naturf. Ges. 43 3.

†*Rhenorensellaeria propinqua* p. 74 figured, DAHMER 23.—*R. crassicosta* figured, MAILLIEUX 90 pl. iv.

STRINGOCEPHALIDAE.

†Stringocephalidae discussed, TORLEY 141 p. 96.

†*Stringocephalus* discussed p. 98, *giganteus*, *burtini*, *dorsatus* p. 101 figured, TORLEY 141.—*S. burtini* figured p. 73, MAILLIEUX 90.—*S. burtini* figured p. 254, HENNIG 60.—*S.* described p. 243, GRABAU 50.

MEGANTERIDAE.

†*Cryptacanthia* ? *robusta* sp. n. Carboniferous U.S.A., GIRTY J. Wash. Acad. Sci. 24 6 p. 249.

†*Cryptonella* discussed, *juvenis* figured p. 108, TORLEY 141.—*C. minor* figured p. 73, DAHMER 23.—*C.* described, GRABAU 50 p. 242.

†*Harttina* described p. 243, *anna* figured, GRABAU 50 p. 238.

†*Meganteris* described p. 243, *archiaci* figured p. 238, GRABAU 50.—*M. henni* sp. n. p. 76, *drevermanni* sp. n. p. 77, *ovata* p. 78 Devonian Germany, DAHMER Abh. preuss. geol. LdAnst. 147.

†*Pseudoharttina* gen. n. type *P. ovalis* sp. n. Permian Turkestan, LICHAREV C.R. Acad. Sci. U.R.S.S. Leningrad N.S. 1 4 p. 212.

DIELASMATIDAE.

†*Beecheria* described p. 240, *davidsoni* figured p. 238, GRABAU 50.—*B. sublaevis* p. 148 figured, GRABAU 51.

†*Cranaena* described p. 240, *romingeri* figured p. 238, GRABAU 50.

†*Dielasma truncatum* mut. *borealis*, aff. *truncatum* p. 13, FREDERICKS 39.—*D.* sp. figured, GUNNELL 56 p. 292.—*D. julicum*, *suttonense* p. 33 figured, LEES 81.—*D. bovidens* p. 150, *dieneri*, ? sp. n. pp. 151, 184, FREDERICKS 37.—*D. woehrmannianum* p. 59, BERNDT 6.—*D. subelongatum* sp. n. p. 117, cf. *moelleri* p. 122, *truncatum* p. 123, cf. *truncatum* p. 126, *lungiense* sp. n. p. 127, cf. *curvatum* p. 128, *tatingense* sp. n. p. 130, *giganteum* p. 134, *elongatum* var. *orientalis* p. 135, Permian China, GRABAU Palaeont. sinica B 8 3.—*D. elongatum* figured, ASTRE 5 p. 73.—*D.* described p. 235, *elongatum* figured p. 246, GRABAU 50.—*D.* cfr. *juresanense* p. 250, *truncatum* p. 276 described, GORTANI & MERLA 47.

†*Eunella* described p. 239, *simulator* figured p. 238, GRABAU 50.

†*Girtyella turgida*, *wellsvillensis* sp. n. p. 292, *brevilobata* figured p. 293 Carboniferous U.S.A., GUNNELL Amer. Midl. Nat. Notre Dame 13 5.—*G.* described p. 239, GRABAU 50.

†*Hemiptychina himalayensis* p. 139 figured, GRABAU 51.—*H. pseudodieneri* nom. n. for *dieneri* Schellwien non Gemmellaro p. 251, *sublaevis* p. 252, sp. ind. (*sublaevis* Diener) non Waagen p. 277 Permian Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.—*H.* described p. 240, GRABAU 50.—*H. gemiflexa* recorded, DE GREGORIO 54 p. 19.

†*Heterelasma payuensis* sp. n. p. 136, *plicata* sp. n. p. 138 Permian China, GRABAU Palaeont. sinica B 8 3.—*H.* described, GRABAU 50 p. 237.

†*Jisuina* described p. 241, GRABAU 50.

†*Mongolina subdieneri* p. 143 figured, GRABAU 51.—*M.* described p. 241, GRABAU 50.

†*Morrisina* described p. 241, GRABAU 50.—*M. sparsiplicata* var. *nana* p. 141 figured, GRABAU 51.

†*Rostranteris mediterraneum*, *pulchrum*, *exile* recorded, DE GREGORIO 54 p. 20.

†*Stuartella traversensis* p. 161, EHLERS & KLINE 35.

†*Terebratulidia* sp. cf. *Dielasma dieneri* figured, FREDERICKS 37 pp. 151, 184.

TEREBRATULIDAE.

Cancellothyris australis recorded, STIASNY 136 p. 65.

†*Dictyothyris rollieri* figured, MOISSEIEV 96 p. 197.

†*Glossothyris* cf. *curviconcha* recorded, DUBAR 29 p. 605.—*G. planulata*, *ingushensis* sp. n., *beyrichi* Ur. Jurassic Crimea and Caucasus, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203 p. 197.

Gryphus bartschi sp. n. Recent West Indies, COOPER Smithson. Misc. Coll. 91 10 p. 1.—*G. vitreus* cell structure etc. figured pp. 95, 99, 100, SENN 128.—*G. vitreus* muscles and internal structure figured, COX 21 p. 226.—*G.* described p. 247, GRABAU 50.

†*Holcothyris* described p. 244, *angulata*, *concava* figured p. 245, GRABAU 50.

Liothyris arctica recorded p. 480, ARNDT & GRIEG 3.

†*Lobothyris* genus emended and diagnosed p. 539, *punctata* type figured, transverse sections p. 540, *punctata* longitudinal sections showing loop p. 541, loop restored and figured pl. lxiii, MUIR-WOOD 98.

†*Misolia* described, *misolica*, var. *boehmi*, var. *wanneri* figured pp. 107, 108, GRABAU 50.

†*Notothyris nucleolus* p. 152, *warthi*, *warthi borealis* var. n. pp. 155, 184 Ur. Carboniferous Petschora Land, FREDERICKS Trav. Inst. Géol. Acad. Sci. Urss 2.—*N. dieneri* recorded, HERITSON 63 p. 44.—*N. warthiformis* nom. n. for *N. warthi* Tschernyschew (non Waagen) p. 145, cf. *nucleolus*, cf. *uralica* p. 147 Permian China, GRABAU Palaeont. sinica B 3.—*N.* described, GRABAU 50 p. 241.—*N. nucleolus*, *minima* sp. n. p. 249, Permo-Carboniferous Caracorum, GORTANI & MERLA Sped. ital. Filippi nell' Himalaia 5.

†*Plectoidothyris* genus emended and diagnosed p. 538, *polyplecta* transverse sections p. 539, loop restored and figured pl. lxiii, MUIR-WOOD 98.

†*Pygope* described p. 247, *diphya* figured p. 246, GRABAU 50.—*Terebratula* (P.) *rupicola* p. 11, PARONA 106.—*Terebratula* (P.) *diphyoides*, *diphya* figured p. 255, HENNIG 60.

†*Rhaetina* described p. 247, *gregaria* figured p. 246, GRABAU 50.—*R. gregaria* p. 59, BERNDT 6.

Surugathyris gen. n. type *Terebratulina* (*Surugathyris*) *surugaensis* sp. n. Recent Japan, YABE & HATAI Proc. Imp. Acad. Tokyo 10 9 p. 587.

†*Terebratula vulgaris* figured, WAGNER 143 p. 453.—*T. subsella* recorded p. 316, DURAND 34.—*T. ? piriformis* p. 34 figured, LEES 81.—*T.* cfr. *prae-punctata* p. 164, MIGLIORINI & VENZO 94.—*T. punctata*, sp. indet., *globata*, *alemanica*, *tchegemensis* sp. n. p. 190, cf. *excavata*, aff. *dorsoplicata*, aff. *arduennensis*, *bourgueti*, *salgiensis* sp. n. p. 191, *maxillata*, ex. gr. *intermedia*, *phillipsi*, *eggenensis*, *stephani*, *kabardinensis* sp. n., aff. *kabardinensis* p. 192, aff. *brevisrostris*, *subcanaliculata*, ex. gr. *baltzeri*, aff. *hossingensis*, aff. *fritzoviensis*, *dobrogiaca*, aff. *bisuffarcinata* p. 193, *subsella*, *zieteni*, *formosa*, *subformosa*, aff. *subformosa*, aff. *capitanea*, *insignis* p. 194, *andelotensis*, *cotteaui*, *kobyi*, *valfinensis*, *etalloni*, cf. *tichaviensis*, ex. gr. *immanis* p. 195, *kokkozensis* sp. n., *kelheimensis*, ex. gr. *kelheimensis*, *bieskindensis*, *moravica* p. 196, *rauraca* p. 197, Jurassic Crimea and Caucasus, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.—*T.* aff. *piriformis* p. 49, ex aff. *piriformis*, *turcica* p. 58, *renevierii* p. 72, cf. *andleri*, *punctata* p. 73, var. *andleri*, var. *ovatissima* p. 74, BERNDT 6.—*T. vulgaris*, SCS 134 p. 292.—*T. depressa* figured pl. xvi, MAILLIEUX 90.—*T. biplicata*, *phaseolina* recorded, HÄNTZSCH 58 p. 114.—*T. moutoni* p. 227, BONŒV 9.—*T.* sp., SCHÖNFELDER 123 p. 96.—*T. jauberti*, var. *pyrenaica* p. 35, *decipiens* var. *vari* p. 36 recorded, DUBAR 32.—*T.* cf. *pelagica* p. 371 figured, DECHASEAUX 25.—*T. infraoolitica* recorded, DUBAR 29 p. 605.

†*Terebratulidae* discussed, TORLEY 141 p. 108.

†*Terebratulina yailaensis* sp. n., ex. gr. *engeli*, *vogdti* sp. n. p. 189, n. sp. p. 190 Upper Jurassic Crimea, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.—*T. waimanensis* sp. n. Tertiary Fiji I., LADD Bull. Bishop Mus. Honolulu 119 p. 162.—*T. gracilis*, SCHÖNFELDER 123 p. 96.—*T.* described p. 245, *caput-serpentis* figured p. 246, GRABAU 50.

Terebratulina caput serpentis p. 143, *septentrionalis* figured pp. 144, 145, CORI 19.—*T. septentrionalis* recorded, PROCTER 113 p. 132.—*T. septentrionalis* p. 480, *caput-serpentis* recorded p. 481, ARNDT & GRIEG 3.—*T. septentrionalis* figured, LAMONT 78 p. 3.—*T. septentrionalis*, *retusa* recorded, STIASNY 136 p. 65.—*T. retusa* cell structure etc. figured pp. 92, 95, 98, 100, SENN 128.

TEREBRATELLIDAE.

Argiope decollata figured, CORI 19 p. 148.

†*Argyrotheca powersi* recorded from Cretaceous of Texas, SCOTT 126 p. 1133.

Argyrotheca johnsoni sp. n. Recent West Indies, COOPER Smithsonian. Misc. Coll. 91 10 p. 2.—*A. cuneata* cell structure etc. figured p. 104, *cordata* p. 105, SENN 128.

†*Aulacothyris waterh[ou]sei*, ex. gr. *rheumatica* var. *depressa*, *salghirensis* p. 202, *hoheneggersi*, *pala* p. 203 figured, MOISSEIEV 96.—*A.* described p. 249, *resupinata* figured p. 248, GRABAU 50.—*Waldheimia* (*A.*) *angusta* p. 19, SCHNETZER 122.

†*Cheirothyris* cf. *aculeata* p. 203 figured, MOISSEIEV 96.

Cistella cistellula figured p. 147, CORI 19.

†*Coenothyris vulgaris*, SCHNETZER 122 p. 19.—*C.* described, GRABAU 50 p. 249.

†*Dallina* described p. 250, *septigera* figured p. 248, GRABAU 50.—*D. vitilevensis* sp. n. Tertiary Fiji I., LADD Bull. Bishop Mus. Honolulu 119 p. 163.

Diestothyris frontalis recorded, STIASNY 136 p. 65.

†*Digonella* gen. n. type *Terebratula digona* J. Sby. p. 550, *digona* transverse sections p. 551, *digona* longitudinal sections p. 552, loop restored and figured pl. lxiii, MUIR-WOOD Philos. Trans. London B 223 505.

Gwynia capsula figured, CORI 19 p. 148.

†*Ismenia taurica* sp. n., *pectunculoides* p. 203 Ur. Jurassic Crimea, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.

†*Kingena* described p. 247, *lima* figured p. 239, GRABAU 50.

Laqueus described p. 250, *californicus* figured p. 248, GRABAU 50.—*L. rubellus* recorded, STIASNY 136 p. 66.

†*Magas pumilus*, *costatus* recorded, SCHÖNFELDER 123 p. 96.

Macandrevia described p. 249, *cranium* figured p. 248, GRABAU 50.—*M. cranium* cell structure figured pp. 90, 95, 96, SENN 128.—*M. cranium* recorded, STIASNY 136 p. 65.

Magallania flavescens, *kerquelenensis* p. 66 recorded, STIASNY 136.—*M.* described p. 248, *flavescens* figured p. 246, GRABAU 50.

Megathyris detruncata cell structure etc. figured pp. 94, 102, SENN 128.

†*Mühlfeldtia* described, *truncata* figured p. 251, GRABAU 50.—*M. truncata* cell structure etc. figured pp. 91, 97, SENN 128.

Nipponithyris gen. n. type *N. nipponensis* sp. n. Recent Japan, YABE & HATAI Proc. Imp. Acad. Tokyo 10 9 p. 588.

†*Obovothyris* genus emended and diagnosed p. 547, *magnobovata* type figured, transverse sections p. 548, *magnobovata* longitudinal sections showing loop p. 549, loop restored and figured pl. lxiii, MUIR-WOOD 98.

†*Ornithella* genus emended and diagnosed p. 543, *bathonica* transverse sections p. 544, *bathonica* longitudinal sections showing loop p. 545, *ornithcephala* type figured pl. lxii, loop restored and figured pl. lxiii, MUIR-WOOD 98.

†*Terebratalia* described p. 250, GRABAU 50.

Terebratalia transversa recorded p. 65, *t. caurina* p. 66, STIASNY 136.

†*Terebratella inconspicua*, *sanguinea* recorded, POWELL 112 p. 265.—*T. canaliculata* recorded, HÄNTZSCHEL 58 p. 115.—*T.* genus described p. 250, *dorsata* figured p. 251, GRABAU 50.

Terebratella spitzbergensis recorded pp. 480, 482, ARNDT & GRIEG 3.—*T. inconspicua* recorded, STIASNY 136 p. 66.

†*Terebrostro* genus diagnosed p. 552, *lyra* transverse sections p. 553, *incurvirostrum* figured, longitudinal sections p. 554, loop restored and figured pl. lxiii, MUIR-WOOD 98.

†*Trigonosemus pulchellus* recorded, SCHÖNFELDER 123 p. 96.

†*Waldheimia cornuta*, *mutabilis*, *stapia* p. 75, cf. *furlana* p. 76, BERNDT 6.—*W. ornithocephala* figured, STOLL 137 p. 7.—*W. sp.* (aff. *morrisii*), *tamarindus* p. 227, BONČEV 9.

Waldheimia cranium recorded pp. 480, 481, *septigera* p. 482, ARNDT & GRIEG 3.—*W. cranium* figured p. 145, *septigera* p. 146, CORI 19.

†*Zeilleria humeralis* recorded p. 315, DURAND 34.—*Z. champlittensis* Maire figured specimen, NASSANS 99 p. 138.—*Z. numismalis* p. 197, *subnumismalis*, *strangulata*, aff. *choffati*, *cor*, cf. *sarthaensis*, *stapia*, *subdigona*, *ewaldi*, *cornuta* pp. 198, 199, cf. *quadrifida*, cf. *indentata*,

emarginata, *subbranvilli* sp. n., *montbizotensis*, *cadomensis*, sp. p. 199, *malkaensis* sp. n., *digona*, *guérassimovi* sp. n., *balkarensis* sp. n. p. 200, *lagenalis*, *subcensoriensis*, cf. *delimontana*, aff. *delimontana*, *humeralis*, *adygensis* sp. n. p. 201, *belbekensis* sp. n., aff. *lugubris* p. 202 Jurassic Crimea and Caucasus, MOISSEIEV Trans. United Geol. & Prosp. Serv. U.S.S.R. 203.—*Z. indentata* recorded, DUBAR 32 p. 36.—*Z. bucculenta* described, DECHASEAUX 25 p. 372.—*Z. subbucculenta*, *waltoni* recorded, DUBAR 29 p. 605.

INCERTAE SEDIS.

†*Turriculum* gen. n. type *T. imperans* sp. n., var. *nimbosum* var. n., var. *abruptum* var. n. p. 26, var. *contortum*, var. *magnum*, var. *pluricostatum*, var. *permagnum*, var. *rex* p. 27 vars. n. Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

†*Virbium* gen. n. type *V. turbecolinum* sp. n. Permian Sicily, DE GREGORIO Ann. géol. paléont. Palermo 52.

(b) BRYOZOA

BY

ANNA B. HASTINGS, M.A., PH.D.

CONTENTS

| | PAGE |
|---------------------------|------|
| I. TITLES | 31 |
| II. SUBJECT INDEX ... | 33 |
| III. SYSTEMATIC INDEX ... | 34 |

I.—TITLES.

1.—Bassler, R. S. Notes on Fossil and Recent Bryozoa. J. Wash. Acad. Sci. **24** 1934 pp. 404–408.

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II.—SUBJECT INDEX.

GENERAL.

Review of work of E. Pergens, STEENHUIS, 53; Dates of publication of Brit. Mus. Catalogues, SHERBORN, 49; Dates of d'Orbigny's Voy. Amér. Mérid., SHERBORN & GRIFFIN, 50.

Systematic position of Bryozoa, MARCUS, 30 p. 589.

Development, *Lophopus*, MARCUS, 30 p. 565; Development of colony, Reteporidae, HARMER, 18 p. 507; Order of budding, BRIEN, 2; Regeneration, *Fredericella*, BRIEN, 3; Age changes, HARMER, 18 p. 515; Morphology and physiology, *Lophopus*, MARCUS, 30 p. 520; Movement and fission of colony, budding and statoblast formation, *Lophopodella carteri*, TAKAHASI, 54; Distribution and life-history, *Lophopus*, MARCUS, 30 p. 503; Distribution, Reteporidae, HARMER, 18 p. 531; Orifice, peristome, ovicells, avicularia, Reteporidae, HARMER, 18 pp. 518-528.

Carotinoid pigment, LÖNNBERG, 27 p. 32; Phosphatic calculi in Silurian Ceramoporoids, OAKLEY, 35; Reserve substances in statoblasts, POURBAIX, 42.

Microsporidian parasite of *Lophopus*, MARCUS, 30 p. 584; Commensals of Reteporidae, HARMER, 18 p. 528; Diatoms in Polyzoa, FRENGUELLI, 12.

Technique, HARMER, 17.

DISTRIBUTION.

(a) RECENT.

Greenland, THORSON, 56; Faroes, KRAMP, 23, 24; Scotland, WALMESLEY, 58; France, PARIS, 39; Poland, KOLACZKOWSKA, 22; India, SEWELL, 48; E. Indies, HARMER, 18; China, SCHODDUYN & LEROY, 45; Japan, OKADA, 37, 38; Tasmania, HICKMAN & SCOTT, 20; N. America, ROGICK, 43; U.S.A., DAHLGREN, 7; GEISER, 13; TANNER, 55.

(b) FOSSIL.

General.—Belgium, MAILLIEUX, 28.

Pre-Quaternary.—Sweden, HADDING, 16.

Miocene.—Victoria, CHAPMAN, 4; STACH, 52; Colombia, TOLMACHOFF, 57.

Eocene.—England, DAVIS, 9; Egypt, PFENDER, 40; Libya, CIPOLLA, 5; Himalaya, DAINELLI, 8.

Cretaceous.—France, MAIRE, 29; Germany, SCHÖNFELDER, 46; Himalaya, DAINELLI, 8; U.S.A., SCOTT, 47.

Jurassic.—Himalaya, DAINELLI, 8.

Triassic.—Himalaya, DAINELLI, 8.

Permian.—Sicily, GREGORIO, 15; Caracorum, MERLA, 31.

Permo-carboniferous.—Turkestan, LICHAREW, 26; China, FOSTER, 10.

Carboniferous.—Serbia, SIMIĆ, 51; Russia, NIKIFOROVA, 33; Petschoraland, FREDERICKS, 11.

Silurian.—Greenland, POULSEN, 41; I. of Man, LEWIS, 25; Russia, NEKHOROSHEV, 32.

Ordovician.—Greenland, KOCH, 21; Caracorum, GORTANI, 14.

Cambrian.—England, COBBOLD & POCKOCK, 6.

Palaeozoic.—Himalaya, DAINELLI, 8; Armenia, NIKIFOROVA, 34.

III.—SYSTEMATIC INDEX.

Full references are given only in the case of a new species. In other cases the numeral in "Large bold clarendon" refers to the list of titles where the full reference may be found. In the case where a reference is given in the Systematic Part, the volume number is printed in "Small bold clarendon."

ECTOPROCTA.

GYMNOLAEMATA.

CTENOSTOMATA.

None.

CYCLOSTOMATA.

†*Cavaria pustulosa*, SCHÖNFELDER 46 p. 93.

†*Centronea americana* nom. n. for *C. micropora* Canu & Bassler (not Reuss), BASSLER J. Wash. Acad. Sci. 24 p. 408.

†*Ceramopora tibetana* sp. n. Ordovician Caracorum, GORTANI Sped. Ital. Filippi 2 5 p. 27.

†*Cuvilliera* gen. n. near Lichenoporidae, *C. egyptiense* sp. n. Eocene Egypt, PFENDER Bull. Inst. égypt 16 p. 103.

†*Desmepora* [sic] *semicylindrica*, SCHÖNFELDER 46 p. 93.

†*Fistuliphragma* gen. n. (Fistuliporidae) genotype *Fistulipora spinulifera* Rominger 1866, BASSLER J. Wash. Acad. Sci. 24 p. 407.

†*Fistulipora* sp., LEWIS 25 p. 102.—*F. craterina* sp. n. Permian Caracorum, MERLA Sped. Ital. Filippi 2 5 p. 254.—*F. sp.*, NEKHOROSHEV 32 p. 4.—*F. jakovlevi*, *monticulosa*, *elegantula* spp. n. Upper Palaeozoic Armenia, NIKIFOROVA Trans. Geol. Prosp. Ser. U.S.S.R. 364 pp. 8-11, 33-35.

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†*Semicytella* gen. n. (Cyrtisidae) genotype *Semicytis disparilis* D'Orbigny 1850, BASSLER J. Wash. Acad. Sci. 24 p. 408.

TREPOSTOMATA.

†*Batostomella spinigera* var. *araxensis* var. n. Upper Palaeozoic Armenia, NIKIFOROVA Trans. Geol. Prosp. Serv. U.S.S.R. 364 p. 13, 36.

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†*Diplotrypa* sp., POULSEN 41 p. 13.

†*Hallopora elegantula*, LEWIS 25 p. 104.

†*Monticuliporella* nom. n. for *Monticulipora* D'Orbigny 1850 (not D'Orbigny 1849), BASSLER J. Wash. Acad. Sci. 24 p. 408.

†*Monotrypa pulchella*, LEWIS 25 p. 104.

CRYPTOSTOMATA.

†*Chasmatopora* (?) sp., NEKHOROSHEV 32 pp. 5, 13.

†*Cystodictya stellata* sp. n. Carboniferous Russia, NIKIFOROVA C.R.Ac. Sci. U.S.S.R. 3 1934 p. 394.

†*Fenestella lata* sp. n. *F. striolata*, Permian Sicily, GREGORIO Ann. Géol. Paléont. Palerme 52 1930 pp. 33, 32.—*F. aff. eichwaldi*, *F. aff. lahusei*, MERLA 31 p. 253.—*F. o.f. assimilis*, *F. sp.*, NEKHOROSHEV 32 pp. 8, 9, 15.—*F. glubokaensis*, *stellata* spp. n. Carboniferous Russia, NIKIFOROVA C.R.Ac. Sci. U.S.S.R. 3 1934 p. 394.—*F. araxensis* sp. n. Upper Palaeozoic Armenia, NIKIFOROVA Trans. Geol. Prosp. Ser. U.S.S.R. 364 pp. 15, 36.

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PHYLACTOLAEMATA.

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VIII. MOLLUSCA

BY

A. E. SALISBURY.

CONTENTS.

| | PAGE |
|--------------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX | 46 |
| III. SYSTEMATIC INDEX:— | |
| Amphineura | 61 |
| Gastropoda... .. | 61 |
| Opisthobranchia | 80 |
| Pulmonata | 82 |
| Scaphopoda | 93 |
| Pelecypoda or Lamellibranchia | 94 |
| Cephalopoda | 111 |

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II.—SUBJECT INDEX.

N.B.—The number in Clarendon type quoted after the author's name, in both Subject and Systematic Indices, refers to "Titles," where the fuller reference will be found.

GENERAL.

Ethno-Conchology.—DILLON, 228; JACKSON, 445; Neolithic Indo-China, PATTE, 712.

Historical.—Nudibranchiata, CHAMBERS, 142; Bivalvia, HAAS, 377; Japanese Conchology, KANAMARU, 468, 470; Phylogenetic History of the Cephalopoda, KERR, 478; Fauna of Western Canada and Mississippi, 652; Evolution, Cephalopoda, SCHINDEWOLF, 840; Hist. and Morph. Osphradiums, STORK, 912.

Biography.—Mr. E. Burnett, S. J. BROOKS, 129; C. C. Allen, EMERY, 250; R. H. Tremper, H. R. HILL, 410; Rev. Ryusko Sugimoto, KURODA, 523; W. J. Wintle, SHERBORN, 868; A. H. Cooke, TOMLIN, 956; R. F. Scharff, TOMLIN, 957.

Bibliography.—Relating to occurrence of Cephalopods in N. Sea, ADAM, 6; Dates of "Nautilus," H. B. BAKER, 68; M. CONNOLLY, 181; Aplysies de Blainville, ENGEL, 252; Cretaceous, E. R. DE FORTANIER, 290; Moll. (L. & F.W.) in the works of Orbigny, GERMAIN, 330; Gemmellaro spp. described

from the Permian Sicily, GREGORIO, 335; Limestone of Sweden, HADDING, 386; "Card Catalogue," American fossils, HOWELL, 433; Atlantic Coast America, JOHNSON, 458; Orbigny on Cephalopoda, JOUBIN, 462; Fossil Invertebrata, Brazil, MAURY, 607; Relative to Terra Nova Nudibranchiata, ODHNER, 681; Marie J.-C. Savigny, documents of, PALLARY, 706; PILSBRY, 741; *Ostrea*, PRYTHERCH, 766; Nuculidae, SCHENCK, 832; Shell structure, SCHENCK, 833; THIELE, 945; TOKUNAGA & NAORA, 953.

General Treatises and Monographs.—

Thyca crystallina Gould, ADAM, 9; *Polygyra inflecta*, ARCHER, 40, 41; Organs of reproduction of *Embletonia* and other nudibranchs, CHAMBERS, 142; Nervous system of *Vaginula solea*, COIFMANN, 172; American Tertiary Pteropoda, COLLINS, 177; South Australian Shells, COTTON & GODFREY, 193, 194; Systematic L. & F.W. Moll. Germany, EHLMANN, 244; Aplysiidae of Blainville, ENGEL, 252; Bivalvia (contd.), HAAS, 377; Foss. Catalogue, HABER, 385; Opisthobranchia: Form., structure, variation, Tegument, (Bronns Klass. u. Ordnung.), HOFMANN, 424; Danish Mollusca Lamelli-branchiata, JENSEN & SPÄRCK, 455; *Spirula*, KERR, 478; *Limapontia*, KEVAN, 479; Moll. Fauna Northern Kurile Islands, KURODA & Koba, 526; Révision Pandoridae in Mus. Hist. nat. Paris, LAMY, 550; Revision of *Anatina* in Mus. Hist. nat. Paris, LAMY, 551; Breeding habits *Littorina*, LINKE, 572; Revision of the Philippine Nassariidae, MARL, 602; Cherokee Nautiloids of Northern mid-Continent region, MILLER & OWEN, 632; Revision of the Taxodonta, PFAB, 721; Mollusca of Dolan West China Expedition, PILSBRY, 739; Planorbidae of Florida figs., PILSBRY, 740; Anatomy of Cypraeidae, RAU, 774; Brackish water fauna, REMANE, 782; Nuculidae, SCHENCK, 832; Cypraeidae, Dutch East Indies, M. & F. A. SCHILDER, 838; Anatomy of *Paludomus tanschaurica*, SESHAIYA, 866; Cat. of The Ammonoidea of the Trias in Brit. Mus., SPATH, 889; Genital organs *Agriolimax agrestis*, SZABO, 931; THIELE, 945; Slugs of Hungary, Croatia and Dalmatia, WAGNER, 1013; Anatomy of Reproductive system *Goniobasis laqueata*, WOODWARD, 1047.

Local Lists and Catalogues.—AHNERT, 16; ALIBERT, 19; York, ALLEN, 25; ANDREUCCI, 33; Land mollusca of Mackinac I. Michigan, ARCHER, 37; Mar. fossils of Iceland, ASKELSSON, 46; Illinois, BAKER, 66; Jamaican Land snails figs., H. B. BAKER, 67; BAUMBERGER, 76; Cretaceous Ardennes, BENOIT, 82; Ardennes, BENOIT, 83; BENOIT, 84; Cenomanien Lucquy, BENOIT, 86; BERNSTEIN, 94; Pleistocene shells from L. Tacarigua Venezuela, BERRY, 95; Lake Bonneville, Utah, BERRY & CRAWFORD, 96; Central Italy, BISACCHI, 102; Northumberland and Durham Mollusca, BLACKBURN, 104; BOGAČEV, 115; BONČEV, 118; Moroccan fossils, BONDON & CLARIOND, 119; BORCEA, 120; Black Sea, BORCEA, 121; BUBECK, 132; Moll. of Pavese, CAVALLINI, 136; CAVALLINI, 137; Snails of Dallas County, Texas, CHEATUM & BURT, 151; CHIESA, 154; CLARIOND, 156; W. Indies, CLENCH, 163; Eocene Mollusca of Thanet, J. E. COOPER, 183; Toarcien Lorraine and Bassigny, CORROY & GÉRARD, 186; Fossils of Pierre Cedar Creek Montana, CORYELL & SALMON, 187; Tritonidae in Mus. d'Elbeuf, COULON, 197; Cat. Cypraeidae in Mus. d'Elbeuf, COULON, 198; N. Zealand, S. Georgia, DAVID, 211; Kimmeridgian Russia, DAVID-ACHVILI, 213; Woolwich Beds at Thornton Heath, DAVIS, 215; U.S.A. Carboniferous, DELÉPINE, 221; DEMBINSKA, 222; DENIZOT, 223; DESIO, 225; DOBRICK, 230; Callovien of Morges, DREYFUSS, 237; Posen, DYRDOWSKA, 241; EFIMOV, 243; Scott Head Island, SERVENTY, 247; Fossil remains from kitchen middens, Alaska, EYERDAM, 255; L. & F.W. shells from Yakima Washington, EYERDAM, 256; S. Servan, FISCHER-PIETTE, 273; S. Servan Mollusca in 1932, FISCHER-PIETTE, 277, 278; FISCHER-PIETTE, 280; FOERSTE, 286; Mollusca in glacial deposits, FORREST, 289; Trias fossils, Tonkin, FROMAGET, 297; Mollusca of the National Park, Gran Paradiso, GAMBETTA, 308; GAMBETTA, 309; GAYRAUD, 315; GERHARDT, 316, 317; Fossils of Inst. Géol., Nancy, GÉRARD, 319; Jurassic Longwy, France, GÉRARD & BICKELONNE, 320; Species of St. Helena, GERMAIN, 327; Land and Freshwater Mollusca occurring in the works of Orbigny, GERMAIN, 330; Tertiary Burgas Bulgaria figs., GOČEV, 339;

GRABAU, 350, 351, 352, 353, 354; Asphalt deposits, Carpinteria, California, GRANT & STRONG, 358; GRAZIADAI, 361, 362; Pleistocene Mollusca of Missouri, GREGER, 363; GUGENBERGER, 370; Shells of Tschile China, HAAS, 374; Foss. Cat. Amphineura et Scaphopoda jurassica II, HABER, 385; Unionidae of Sapporo Japan, HAYASHI, 398; HEINZ, 399; HERITSCH, 409; Pleistocene spp., Mariae Islands, HERTLEIN, 412; Cretaceous Creuë, HOFFET, 421; Fossils of Saint-Florentin, HOUDARD, 431; HUBER, p. 73, 437; Ammonites of Wurtemberg, Ratbonebeds, HUENE, 438; Mollusca of Lancashire and Cheshire, JACKSON, 446; West Hungary, JAECKEL, 448; Tyrol, JAECKEL, 449, 450; JAROS, 454; Danish Lamellibranchiata, JENSEN & SPÄRCK, 455; Western Siberian Freshwater Mollusca, JOHANSEN, 457; Marine Moll. Atlantic Coast, Labrador to Texas, JOHNSON, 458; Nias Id., JUTTING, 464; KAMENOV, 467; Pleistocene shells in Yorkshire and Durham, KENNARD & LUCAS, 477; Salt-marsh, Connecticut, KNIGHT, 493; KOCH, 500; KOVÁCS, 505; KÜHN, 511, 512; KÜHNEL, 515; Genera of Japanese Mollusca, KURODA, 521; Opisthobranchia and Pulmonata of Japan, KURODA, 523; Albien of Algeria, LAFFITTE, 540; Atlantic and Pacific Mollusca, LAMY, 553; LECOINTRE, 557; Polyplacophora of the Belgian Coasts, LELOUP, 562; LEPSI, 566; LICHAREW, 568; Arvika and district, LUNDGREN, 580; LUNGERSHAUSEN, 581; Holocene fossils in Co. Down, MACDONALD, 583; Clyde area, McCUTCHEON, 591; Fossils of Belgium, MAILLIEUX, 596; Species of the Neocomien of Gray (France), MAIRE, 597; Fossil spp. San Quintin Bay, MANGER, 598; MARCHETTI & RAMACCION, 601; METZNER, 622; Belgium, MICHOT, 623; MITZOPOULOS, 635; Windermere, MOON, 641; Semerwater, MOREHOUSE, 646; MORELLET, 647; L. & S. MORELLET, 648; Western Canada, MOZLEY, 652; Lincolnshire spp., MUSGRAVE, 660; Jurassic fossils in col., V. Maire, NASSAUS, 666; NEGRI, 668; Suruga Bay, Japan, NIINO, 672; NOMURA & URDA, 676; Marine shells of Lian-tung, Manchuria, NOMERA & ZINBÔ, 678; NOSZKY, 679; Freshwater shells of Nikko, Japan, OKADA, 684; Fossils, Japan, OTUKA, 697; Mar. and Non-Mar. of Oran, PALLARY, 702; Central Sahara,

PALLARY, 705; Holocene Bohemia, PETRBOK, 720; N. Palestine, PICARD, 724; Groups of *Oreohelix*, PILSBRY 738; Gastropods of Allegany State Park, N.Y., PINNEY & COKER, 750; Pliocene fossils from Cape Runaway, N.Z., POWELL, 755; Saint-Laurent, PREFONTAINE, 761; Moll. of Paul Lake, B.C., RAWSON, 777; REINA, 781; REMES, 783; Moll. of Sunda Expedition, RENSCH, 785; Mollusca of Bali, Lombok, Sumbawa, Flores, Sumba, RENSCH, 791; Mollusca of Columbia, U.S.A., RICHARDS, 796; Tennessee mollusca, RICHARDS, 797; RICKER, 800; Lias and Jurassic of Bédarieux, ROQUEFORT, 836; ROSENKRANTZ, 808; Mollusca of Hungary, ROTARIDES, 810; Cypraeidae of Dutch East Indies, M. & F. A. SCHILDER, 838; Persian Mollusca, SCHLESCH, 843; SCHLESCH, 844; Trias Saltzberg, SCHNETZER, 849; Mollusca of Val Passiria, SCHROTT, 853; SCOTT, 857; Scott Head Island, SERVenty, 863; Fauna of Salt Lakes, Calcutta, SEWELL, 867; SLODEKVIĆ, 877; Shrewsbury district, W. L. SMITH, 880; Fauna of Ōs, Soós, 887; Trias fossils of Madrid Museum, SOS, 888; Fossils of Geelong, STACH, 894, 895; Balkan Ammonites figs., STEFANOV, 899; STEUSLOFF, 906; Marine moll. Acapulco, STRONG, HANNA & HERTLEIN, 916; West American *Liotia*, STRONG, 917; SUGUKI, 920; TAN & RIN, 938; Ishavsfinnland, TANNER, 939; Mollusca used for food Marseilles, TEISSONNIÈRE, 944; Marine Moll. of the Scoresby Sound Committee's 2nd E. Greenland Expedition, THORSON, 950; TINDALE, 952; Cretaceous Sicily, TREVISAN, 973; URBANCKI, 987; VAUTRIN, 994; VENZO, 998; VIALOR, 1002; VIOLOV & VIOLOVA, 1003; Trias Hungary, VIGH, 1004; VJALOV, 1008; Slugs in Nat. Hist. Mus., Sofia, H. WAGNER, 1014; J. WAGNER, 1020; Derbyshire, WALTON, 1021; WERNER, 1033; Devonian Pennsylvania, WILLARD, 1037; WILLARD, 1038; WIRTH, 1045; WNUKOWSKY, 1046; Lutetian fossils from Southampton, WRIGLEY, 1055; Cretaceous Anglo-Paris Basin and Bohemia, ZAHÁLKA, 1059.

Museums, Collections and Expeditions.—Johnson-Smithsonian to Puerto Rican Deep, BARTSCH, 74; Ardennes, BENOIT, 83, 84; Utowana Expedition, Cerions from, CLENCH, 163; Puerto Rican Expedition, COREA, 184;

Museum d'Elbeuf-Tritonidae, COULON, 197; Museum d'Elbeuf-Cypraeidae, COULON, 198; Milan, DESIO & AIRAGHI, 224; FORCART, 287; Inst. de Nancy, GÉRARD, 319; M. A. Chavalier, Sahara and West Africa (1931-32), GERMAIN, 322, 323; GRAZIADEI, 361; Senckenberg, HAAS, 381; KANAMARU & SUGITANI, 471; Carnegie Museum, fossil shells from Bermuda in, KUTCHKA, 531; Collections and Dermestid beetle, KUTCHKA, 532; Mus. hist. nat. Paris Silicoderms, LABBÉ, 533; Mus. nat. d'Hist. nat. Paris, Revision of Pandoridae in, LAMY, 550; Mus. nat. d'Hist. nat. Paris, Revision of *Anatina* in, LAMY, 551; Nova Zembla, MILORADOVICH, 633; Experiment (in storing) and deterioration of shells in collections, NICHOLLS, 670; Terra Nova, ODHNER, 681; British Antarctic "Terra Nova," ODHNER, 681; Dolan West China, PILSBRY, 739; Deutschen Sunda, RENSCH, 785; Sunda-Exped., RENSCH, 786; Brit. Mus. type of *Lucina odontotis* sp. n., SALISBURY, 827; Madrid Museum—Trias fossils, SOS, 888; Templeton Crocker 1932, STRONG, HANNA & HERTLEIN, 916; British Museum, Notes. iv, TOMLIN, 959; Notes. v, Reeve's "Monograph of *Pleurotoma*," TOMLIN, 962; Notes. vi, Reeve's "Monograph of *Mangelia*," TOMLIN, 963; Slugs in Sofia Nat. Hist. Mus., H. WAGNER, 1014.

Classification.—AGUAYO, 15; ARCHER, 39; *Polygyra*, ARCHER, 41; Nudi-branchiata of Amakusa, BABA, 52; BARTSCH, 73, 74; Mollusca of Central Italy, BISACCHI, 102; BLANCKENHORN, 105; BODE, 108; CLARK, 157; COEN, 170; COTTON & GODFREY, 193, 194, 195, 196; CRICKMAY, 202; DAVID, 211; Mollusca of Germany, EHLMANN, 244; GERMAIN, 324; HAAS, 376, 384; J. HENDERSON, 403; *Helicella* and *Helicigona*, HESSE, 415; Australian Unionidae, IREDALE, 441; IREDALE, 443; Moll. Nias Id., JUTTING, 464; KELLER, 474; Euomphalidae, Platyteratidae, J. B. KNIGHT, 495; Oncidiadae, Silicoderms, LABBÉ, 533; LABBÉ, 534, 535; Silicoderms, LABBÉ, 536; Pandoridae of Mus. Hist. nat. Paris, LAMY, 550; LEBOUR, 555; MELDINGER, 615; Mixochoanitic Cephalopods, MILLER, 627; MILLER, 627; "Terra Nova" Nudibranchs, ODHNER, 681; Taxodonta, PFAB, 721; PIERSANTI, 728; PILSBRY, 735, 736;

Planorbidae of Florida and Recent American genera, PILSBRY, 740; Par-tulidae, PILSBRY & COOKE, 744; POWELL, 756; *Tylodina*, PRUVOT-FOL & FISCHER-PIETTE, 765; RENSCH, 792; I. RENSCH, 794; RICHARDS, 796; Hungarian fauna, ROTARIDES, 810; Fossil Unionidae, Western Canada, L. S. RUSSELL, 819; Tellinidae, SALIS-BURY, 828; Nuculidae, SCHENCK, 832; SCHLESCH, 843; Triassic Am-monoidea, SPATH, 889; STAHLCKER, 896; *Liotia*, STRONG, 917; THIELE, 945; TOMLIN, 959; TUCKER, 977; WATSON, 1027; R. WINCKWORTH, 1043.

Nomenclature.—ARKELL, 44; BABA, 52; B. BAKER, 57; *Stagnicola* spp., F. C. BAKER, 60; F. C. BAKER, 61; *Helisoma* vats., F. C. BAKER, 62; F. C. BAKER, 64; H. B. BAKER, 67; BARTSCH, 73, 74; Africa Achatinac, BEQUAERT & CLENCH, 87; *Melanopsis*, BIFFS, 98; BLANCKENHORN, 105; BODE, 108; CLARK, 157; *Hyridella*, CLENCH, 158; *Oliva*, CLENCH, 159; CORYETT & SALMON, 187; COTTON & GODFREY, 193, 194, 195, 196; L. R. COX, 200; Sp. of *Trechmannella*, L. R. COX, 201; Vernacular names in Malta and Gozo, DESPOTT, 226; GABRIEL, 306; GÉRARD & BICHELOUNE, 320; GERMAIN, 324, 325; GIRTY, 338; HAAS, 376, 381; *Viviparus* spp. n., HAAS, 382; HAAS, 384; Malay names, HAMILTON, 389; J. HENDERSON, 403; HENDERSON & RODECK, 407; HOFFMANN, 423; IREDALE, 441, 443; JOHNSON, 458; KELLER, 474; KURODA, 519; LABBÉ, 535; LUPPOV, 582; *Helicostyla*, MCGIRSTY, 592; MAIRE, 597; MANSFIELD, 599; MARWICK, 606; MILLER, 625; Mixo-choanitic Cephalopods, MILLER, 627; MILLER, 627; MORLEY, 650; MOZLEY, 655; Terminology of the macluritoid operculum, ODER, 680; Terra Nova Nudibranchiata, ODHNER, 681; OLD-ROYD, 690; *Liguus* var. n., PFLUEGER, 723; PICARD, 724; PILSBRY, 734; Beck and Held land snail names, PILSBRY, 741; PILSBRY & AGUAYO, 742; Hawaiian Helicinidae, PILSBRY & COOKE, 743; PILSBRY & LOWE, 746; PING & YEN, 748; POWELL, 756; Sumatra shells, B. RENSCH, 787; RENSCH, 789; SALISBURY, 828; *Lampsilis* sp. n., SCHALIE, 831; SCHLESCH, 843; SEKI, 860; Soós, 887; Glossary of terms applied to

Ammonoidea, SPATH, 889; STOLL, 909; Terminology, STRAND, 914; *Pseudochama*, STRONG, 915; SZABO, 930; THIELE, 945, 946; TOMLIN, 960, 961; *Turris*, TOMLIN, 962; *Mangelia*, TOMLIN, 963; *Tellina*, TOMLIN, 984; TUCKER, 977; UEJI, 982; UHL, 985; VANATTA, 991; VITALIS, 1005; H. WAGNER, 1015; *Milax* sp. n., H. WAGNER, 1016; J. WAGNER, 1018; WATSON, 102; spp. n. land shells, WELCH, 1029; *Opisthosiphon* Cuba, WELCH, 1030; spp. n., WILLETT, 1040; WINCKWORTH, 1041; British Mollusca, WINCKWORTH, 1042; WINCKWORTH, 1043; B. H. WRIGHT, 1051; YÜ, 1058; ZETEK, 1060.

Conchometry.—ADAM, 6; *Goniobasis* and *Anculosa*, BAILY, PEARL & WINSOR, 55; *Polygyra profunda*, F. C. BAKER, 58; *Goniobasis comalensis*, CHEATUM & MOUZON, 152; *Lymnaea*, COLTON & PENNYPACKER, 179; *Trechmannella*, L. R. COX, 201; ENTZ & SEBASTYÉN, 253; *H. pisana*, GERMAIN, 326; Unionidae, GRAHLE, 357; *Meretrix*, HAMAI, 388; J. B. KNIGHT, 495; *Margaritana margaritifera*, KOBAYASHI, 497; MACDONALD & CLENCH, 584; MOZLEY, 651; NIINO, 671; Application of formula $a = kb^x$ to growth relation of embryonic *Semisulcospira libertina* figs. & tables, OÜÉ, 698; *Mitra scrobiculata*, RAVETTA, 776; *Cochlicella acuta*, RODE, 802; *Cardium edule*, SCHILDER, 836; Cypraeidae from Java, M. & F. A. SCHILDER, 837; SUSUKI, 927; *Corbicula maxima*, TAN, 937.

Technique.—Microscopy, BAUCKER, 54; BEAMS, MULVIT & GATENBY, 78; FRANZ, 293; Technique of tissue culture in *Helix aspersa*, GATENBY & HILL, 312; J. C. HILL, 419; HOFFMANN, 424; HOWES & WELLS, 435; Collections, preparation of, KANAMARU, 469; LOWRANCE, 578; TOVIM, 968.

Economics.—Silk from Mollusca, ALLAN, 21; BEEBE, 79; Rossel Island Money, DILLON, 228; *Sepia officinalis*, KUENTZ, 510; Nutritive value *H. pomatia*, MORETTI, 649; Storage of oysters, NEEDLER, 667; OKADA & KOBAYASHI, 685; Economics of Paleontology, OLIVIERA, 691; *Unio crassus*, OVOINNIKOV, 700; SUNDARA-RAJ, 922, 923; TEISSONNIÈRE, 944.

Miscellanea.—Catabolism, BALDWIN & NEEDHAM, 70; H. H. BLOOMER, 107; Human influence on land mollusca, BOYCOTT, 124; Glochidial conglomerates *Cyprogenia aberti*, CHAMBERLAIN, 141; Relation, Size to Sex *Ostrea*, COE, 166; Africa hosts of *Bilharziasis*, CONNOLLY, 180; Population, ELLIS & OLDHAM, 248; Scott Head Island spp., ELLIS & OLDHAM, 248; Arthraria-like markings made by annelids and snails—Burrows, C. & M. FENTON, 261; China Problems of early Cephalopods, GRABAU, 348; Catalase and oxygen consumption of lamellibranchs, HOPKINS, 427; Weight relations water in *Helix*, HOWES & WELLS, 435; Contents water in *Arion ater* and *Limax flavus*, HOWES & WELLS, 436; Population relations to heights, JAECKEL, 449; Collections and Dermestid beetle, KUTCHKA, 532; Collecting Lower California, H. N. LOWE, 576; Catalase in *Mytilus*, MARKS & FOX, 603; Deterioration of shells in oak cabinets, NICHOLLS, 670; Artificial production of so-called var. of *Helix aspersa*, OLDHAM, 687; Development effects of X-rays (*Lymnaea*), SONEHARA, 882.

STRUCTURE.

General.—ANDERSSON, 30; *Polygyra inflecta*, ARCHER, 41; *Anodonta cygnea*, H. H. BLOOMER, 107; Structural Anatomy of *Embletonia* and other Nudibranchs, CHAMBERS, 142; CHEATUM, 150; *Trechmannella*, L. R. COX, 201; W. African landsnails *Gonaxis*, *Lamelliger*, *Edentulina*, *Gulella*, *Zonitacion*, *Helicarion*, *Gymnarion*, DEGNER, 220; *Carinaria*, FIGGE, 263; Reproductive organs, GAMBETTA, 307; *Gari tellinella*, *Tellina crassa*, *Macoma balthica*, *Scrobicularia plana*, *Donax vittatus*, *Cultellus pellucidus*, *Solecortus scopula*, *S. chamasolen*, GRAHAM, 356; *Helicella*, *Helicigona*, HESSE, 415; *Oncidium* and related genera, LABBÉ, 535; LINKE, 572; *Bathydoris*, *Marionia*, figs., ODHNER, 681; Planorbidae of Florida figs., PILSBRY, 740; *Ena*, PILSBRY & COOKE, 744; *Ostrea*, PRYTHERCH, 766; Cypræidae, RAU, 774; Epithelium *Eolidia*, ROUSSEAU, 817; Kidney in *Bythinia*, SCATIZZI, 830; *Paludomus tanschaurica*, SESHAIYA, 866; *Agriolimax agrestis*, SZABO, 931; *Polinices* (*Neverita*) *didyma*, I. TAKI, 935; TOVIM, 968;

VAYSSIÈRE, 996; Limacidae of Hungary, Croatia and Dalmatia, WAGNER, 1013.

Nervous System.—*Vaginula solea*, COIFMANN, 172; Heart nerves *Anodonta*, ESSER, 254; *Gari tellinella* figs., GRAHAM, 356; *Aplysia*, JORDAN & LULLIES, 461; *Bathydoris*, *Lissodoris*, *Telarma*, *Notaeolidia*, *Eubranchus*, *Tritoniella*, *Marionia*, figs., ODHNER, 681; "Terra Nova" Nudibranchiata, ODHNER, 681; *Paludomus tanschaurica*, SESHAIYA, 866; *Limax cinerea*, STEFANELLI, 897; *Limax cinerea*, STEFANELLI, 898; STORK, 912; SUSUKI, 924; *Pinctada martensi*, SUZUKI, 925; *Cellana nigrolineata*, *eucosmia*, SUZUKI, 926; SZABA, 928; VOISSOV, 1009.

Sense Organs.—Eyes, *Diaphanosoma*, VANNINI, 993; Stylomatophoren, WÄCHTLER, 1011.

Muscular System.—ADAM, 9; Heart muscles, *Anodonta*, ESSER, 254; GRAHAM, 356; HAAS, 377; RAUCCI, 775; ROTARIDES, 812; *Paludomus tanschaurica*, SESHAIYA, 866.

Vascular System.—*Oncidium verruculatum* (Cuv.), AWATI, 50, 51; BALDWIN & NEEDHAM, 70; Oxygen consumption, CHEATUM, 150; Figs., COTTON, 190; *Anodonta*, ESSER, 254; *Helix aspersa* experiments, GATENBY, HILL & MACDOUGALD, 313; *Ostrea*, HOPKINS, 428; *Lissodoris*, figs., ODHNER, 681; ROTARIDES, 809; *Paludomus tanschaurica*, SESHAIYA, 866; *Ostrea*, TAKATSUKI, 934; S. African snails, WATSON, 1027.

Alimentary System, Radula, Jaws.—Radula variation *Sepiola*, ADAM, 8; Radula, ADAM, 10; Alimentary canal, BALDWIN & NEEDHAM, 70; Radula, *Assimineia* (*Eussoia*) *somata* sp. n., BISACCHI, 101; Radula of Embryonic *Lymnaea*, CAWSTON, 139; Radula W. African landsnails, *Gonaxis*, *Lamelliger*, *Edentulina*, *Gulella*, *Zonitacion*, *Helicarion*, *Gymnarion*, DEGNER, 220; Pancreas, FILHOL, 266; Radula, Patella France, FISCHER-PIETTE, 281; Alim. canal, *Tellina crassa*, *Macoma balthica*, *Scrobicularia plana*, *Donax vittatus*, *Cultellus pellucidus*, *Solecortus scopula*, figs., GRAHAM, 356; *Gari tellinella* figs., GRAHAM, 356; Radula, JUTTING, 464, 465; *Spirula*, KERR,

478; *Radula*, LABBÉ, 533; LABBÉ, 538; *Stagnicola kingi*, LOWRANCE, 578; *Radula* and *Jaw*, *Bathydoris*, *Aegires*, *Lissodoris*, *Cadlina*, *Austrodoris*, *Aphelodoris*, *Telarma*, *Notaeolidia*, *Eubranchius*, *Tritoniella*, *Doto*, figs., ODHNER, 681; *Cadlina*, *Telarma*, *Notaeolidia*, *Eubranchius*, *Tritoniella*, *Marionia*, figs., ODHNER, 681; *Radulae*, Terra Nova Nudibranchiata, ODHNER, 681; *Liotina fijiensis*, PILSBRY, 737; *Radula*, *Oreohelix*, PILSBRY, 738; *Radula*, *Helisoma*, *Australorbis*, figs., PILSBRY, 740; *Radula*, PILSBRY & COOKE, 744; *Radula*, *Septaria dravidica*, PRASHAD, 758; *Radula*, *Vermetus* (*Spirogyphus*) *andamanicus*, PRASHAD & RAO, 759; *Radula*, PRASHAD & RAO, 760; *Radula*, *Tylodina*, PRUVOT-FOL & FISCHER-PIETTE, 765; *Radula*, *Crossopoma*, *Opisthoporus*, *Microcystina*, figs., RENSCH, 785; *Radulae*, RENSCH, 786; *Radulae*, *Physastra ovalina*, *Septaria suborbicularis*, *Balanocochlis inermis*, *Melania rudis*, RENSCH, 791; *Radula*, I. RENSCH, 794; *Theodoxia*, ROGER, 804; *Radula*, *Paludomus tanschaurica*, SESHAIYA, 866; *Radula*, *Bulimus* from Korea and Manchuria, SHIBA, 869; *Radula*, *Succinea* figs., H. E. QUICK, 768; *Radula*, *Polinices* (*Neverita*) *didyma*, I. TAKI, 935; *Radula*, THIELE, 946; *Radula*, *Triviella*, TOMLIN & SCHILDER, 967; *Radula*, VAYSSIÈRE, 996; *Radula*, S. African Paryphantidae, Endodontidae, and Helicarionidae (= Ariophantidae), WATSON, 1027.

Respiratory Organs.—Gill, *Anodonta cygnea*, H. H. BLOOMER, 107; CHEATUM, 150; Nudibranchs, ODHNER, 681; Structure of gill of *Paludina*, PATRASCANU, 711; S. African snails, WATSON, 1027.

Reproductive Organs.—*Embletonia*, CHAMBERS, 142; *Ostrea*, COE, 166; Genitalia, African Landsnails, DEGNER, 220; EMURA, 251; Genital organs, *Spirula*, KERB, 478; *Bathydoris*, *Lissodoris*, *Glossodoris*, *Cadlina*, *Austrodoris*, *Telarma*, *Marionia*, figs., ODHNER, 681; *Oreohelix*, PILSBRY, 738; *Plectotropis* figs., PILSBRY, 739; *Helisoma*, *Carinifex*, *Tropicorbis*, *Meneus*, figs., PILSBRY, 740; *Eua*, PILSBRY & COOKE, 744; Cypraeidae, RAO, 774; *Paludomus tanschaurica*, SESHAIYA, 866; SOÓS, 884; *Agriolimax agrestis*, SZABO, 931; *Zonitoides nitidus*, WAT-

SON, 1026; S. African Snails, figs., WATSON, 1027; WERNER, 1033; *Goniobasis laqueata* (Say), T. M. WOODWARD, 1047.

Excretory and Secretory Organs.—BALDWIN & NEEDHAM, 70; DARTEVELLE, 208; *Agriolimax agrestis*, FILHOL, 265; Glands *Helicidae*, FILHOL, 268; Renal organs, *Paludomus tanschaurica*, SESHAIYA, 866; *Ostrea*, TAKATSUKI, 934; Secretion glands, TOVIRU, 938; Pulmonary gland of *Zonites algirus* L., TURCHINI & BROUSSY, 978; VOINOV, 1009.

Luminous Organs.—BOUTAN, 123.

External Anatomy. — *Proserpina*, BAKER, 56.

Shell.—*Polymita*, ANDREWS, 32; Figs., BOUTAN, 123; BRAUNE, 126; African landsnails, DEGNER, 220; Operculum, HOFFMANN, 424; Girdle scales, *Ischnochiton pura*, MACKAY, 588; Ammonites, NAGAO & SAITO, 664; [Pallial sinus], *Macoma*, OINOMIKADO, 682; Tegument attachment to shell of, in *Macoma*, OINOMIKADO, 682; Nacre of shell, OVTSCHINNIKOV, 699; *Theodoxia*, ROGER, 803; Pelecypods, SCHENCK, 833; TEICHERT, 943.

Nacreous Growths.—Chemical contents of nacre, OVTSCHINNIKOV, 699; Pearl, PIERANTI, 729; Fossil pearls, ZILCH, 1062.

PHYSIOLOGY.

General.—*Sphaerium*, ADENSAMER, 12; CHEATUM, 150; *Helix* "Xerophiles," GERMAIN, 329; KRÜGER, 507; PRUVOT-FOL, 764; *H. ericetorum* [*itala*], SCHMID, 845.

Glandular Secretions, Pigments.—Pigment, Tyrian purple, ALLAN, 20; Secretory, ALLAN, 24; Pigment of N. Zealand oysters and Toheroas, EDSON, 242.

Reaction of Light.—KOLLER & STUDNITZ, 502.

Vascular System.—HAAS, 378; HAUGHTON, 395.

Respiration and Respiratory Organs.—Lungs and gills, HOFFMANN, 424.

Excretory Organs.—Oviduct glands, *Oxychilus lucidus*, FILHOL, 267; Excretory glands mucus, *Arion rufus*, FILHOL, 269; HAAS, 378.

Muscular System and Muscular Movements.—Movements, GERSCH, 331; System, *Gari tellinella*, *Scrobicularia plana*, *Donax vittatus*, figs., GRAHAM, 355; System, *Gari tellinella*, *Solecurtus scopula*, figs., GRAHAM, 356; Action of toxins on ciliary movement, DORLEY, 1049.

Nervous System and Nervous Movements.—BENAZZI, 81; Nerve reactions in *Aplysia*, JORDAN & LULLIES, 461; Nervous system of Pulmonata, KRULL, 508; LABBÉ, 533; MAY, 611.

Reproductive Organs.—*Embletonia*, CHAMBERS, 142; *Limax tenellus*, figs., KÜNKEL, 518; LABBÉ, 537, 538; Genitalia *Littorina*, LINKE, 571.

Tegument.—ADAM, 7; Mantle, HAAS, 377, 378; Mantle, HOFFMANN, 424; LABBÉ, 533; "Terra Nova" Nudi-branchiata, ODHNER, 681; *Paludomus tanschaurica*, SESHAIYA, 866; TOVIM, 968; Mantle, S. African snails, WATSON, 1027; Mantle organs, *Goniobasis laqueata* (Say), T. M. WOODWARD, 1047.

Effect of Temperature.—MONTI & STELLA, 640.

Effect of Colour.—LICHE, 569.

Chemical Reaction.—On tissues of *Loligo*, BACQ, 53; The production of Urea in *Helix pomatia*, 70; Reactions of Tyrosine group, CALIFANO, 135; Action of toxins, CHAPHEAU, 143; Effects of Glycogen, *Nassa reticulata*, HENSCHEL, 408; LÖNNBERG, 574; Reactions on *Murex anguliferus*, MANSOUX BEK, 600; Toxic action on ciliary movement, metachronism, WORLEY, 1049.

Chemical Constituents.—BALDWIN & NEEDHAM, 70; BERGMANN, 91; Chemistry of Ostreasterol, BERGMANN, 92; CALIFANO, 135; DAVIS, KELLY & BACHTEL, 216; JONES, McCANCE & SHACKLETON, 460; LEDERER, 558; Pectenoxanthine, LEDERER, 559; *Murex anguliferus*, MANSOUR-BEK, 600; F. MAY, 610; *Watasenia*, OKADA, TAKAGI & SUGINO, 686; PROBST, 763;

SEMICHON, 861; Chemical contents and reactions on *Murex trunculus*, VIALLI, 1001.

Experiments.—*Helix pomatia*, ARGAUD & MOUGEOT, 42; On tissues of *Loligo*, BACQ, 53; *Helix pomatia*, BALDWIN & NEEDHAM, 70; BENAZZI, 81; On egg of *Cumingia* stratification zones, COSTELLO, 188; On aestivation of *Helix aspersa*, FILHOL, 264; *Helix aspersa*, GATENBY, HILL & MACDOUGALD, 313; GERSCH, 331; GRAVE, 360; Culture of Pulmonate Mollusca, J. C. HILL, 419; HOPKINS, 427; Weight relations (water) in *Helix pomatia*, HOWES & WELLS, 435; Weight fluctuations in *Arion* and *Limax*, HOWES & WELLS, 436; *Mya arenaria*, KOLLER & STUDNITZ, 502; KRÜGER, 507; *Murex anguliferus*, MANSOUR-BEK, 600; MAY, 609, 610; PIERANTONI, 725; PIER-SANTI, 730; On muscular action, *Helix pomatia*, POSTMA, 754; Effects of X-rays on development of *Lymnaea* (*Radix*) *japonica*, SONEHARA, 882; TÜRK-MEININGEN, 979; ZUNZ, 1064.

DEVELOPMENT.

Oogenesis and Ovum.—Egg cases, ALLAN, 23; BEISSENHIRTZ & HAAS, 80; *Anodonta*, H. H. BLOOMER, 107; *Lymnaea columella*, COTTON & PENNY-PACKER, 179; DAN, 207; IKEDA & EMURA, 440; *Limapontia*, KEVAN, 479; Eggs of Rissoidae, LEBOUR, 555; Eggs of some British Turridae, LEBOUR, 556; *Stagnicola kingi*, LOWRANCE, 578; *Tethys californicus*, MACGINITIE, 586; *Pleurocera*, MAGRUDER, 595; Egg capsules, MEER MOHR, 614; *Limapontia*, PELSENEER, 715; PIERANTONI, 725; Partulidae, PILSBRY & COOKE, 744; *Octopus vulgaris*, PORTMANN, 753; *Lymnaea*, SONEHARA, 882; *Loligo*, *Columbella*, SPEK, 893; *Loligo pealii*, STEVENSON, 907; IWA TAKI, 936; *Goniobasis laqueata*, WOODWARD, 1047.

Spermatogenesis and Spermatozoon.—FIGGE, 263; Spermatogenesis Microscopy, Technique, FRANZ, 293; Spermatogenesis, MONNÉ, 638; Spermatozoa, *Goniobasis laqueata* (Say), T. M. WOODWARD, 1047.

Embryology.—*Lymnaea*, CAWSTON, 139; Dispersal of glochidia, *Cyprogenia aberti*, CHAMBERLAIN, 141; Genetics, *Lymnaea*, COTTON & PENNY-PACKER, 179; *Cumingia*, COSTELLO,

188; DEGNER, 218; Glochidia, HAAS, 374; KINOSHITA & HIRANO, 486; *Limax tenellus*, KÜNKEL, 518; *Stagnicola kingi*, LOWRANCE, 578; *Tachea nemoralis*, *Succinea putris*, figs., MONNÉ, 637; *Limapontia*, PELSENEER, 715; PIERANTONI, 725; *Octopus vulgaris*, PORTMANN, 753; *Ampullaria canaliculata*, SCOTT, 858; STOLFI, 908.

Larval Stages.—Marine Plankton, JOHNSTONE, 459; Rissoidae, LEBOUR, 555; Larvae of some British Turridae, LEBOUR, 556; *Stagnicola kingi*, LOWRANCE, 578; *Ostrea*, PRYTHERCH, 766.

Post-Embryonic Stages.—JOHNSTONE, 459; *Stagnicola kingi*, LOWRANCE, 578; *Loligo vulgaris*, RAJA, 773; *Physa*, TIFFIN, 951.

Shell.—Shell growth relative to environment in *Patella vulgata*, H. B. MOORE, 644; Shell Form, Structure, HOFFMANN, 424.

Parthenogenesis.—Self-fertilization results, COLTON & PENNYPACKER, 179; Self-fertilization in *Bradybaena*, IKEDA & EMURA, 440; LAMY, 552; *Bullinus contortus*, LARAMBERGUE, 554.

ETHOLOGY.

General.—*Batillaria multiformis*, ABE, 1; ABRAHAM & MODLINGER, 3; F. BAKER, 63; BROCKMEIER, 127; CHAMBERLAIN, 141; CHEATUM, 149; DOLLEY, 231; DYRDOWSKA, 241; ELLIS & OLDHAM, 248; R. ELMHIRST, 249; *Mytilus edulis*, FISCHER, 271; *Mytilus*, FISCHER-PIETTE, 272; *Patina*, N. FISHER, 283; FORREST, 289; FOSTER & DEVENTER, 292; FREYBERG, 295; FROMMING, 299; Food and Plant Association, FROMMING, 299; GIOVANNOLI, 336; GOODRICH, 341; GRANT & STRONG, 358; Ecology of Birdlip Woods, GRENSTED, 366; HERTLING, 413; *Eremina*, KALTENBACH, 466; KEVAN, 479; *Margaritana margaritifera* in Japan, KOBAYASHI, 497; G. of California, H. N. LOWE, 576; On the Sonoran side of the Gulf of California, LOWE, 577; San Quintin Bay, MANGER, 598; MAZEK-FIALLA, 612; MEER MOHR, 613; Windermere, MOON, 641; MOZLEY, 652; Suruga Bay, Japan, NIINO, 672; PEARSE, 714; PFANNENSTIEL, 722; PRENANT, 762; RAWSON, 777; Brackish water

fauna, REMANE, 782; RENSCH, 792; RICHARDSON, 798; Morphology, *Cochlicella acuta*, RODE, 802; ROTARIDES, 811, 813; SCHIRMER, 824; Food, *H. ericetorum*, SCHMID, 845; SCHMID, 846; SCHROTT, 853; G. M. SMITH, 879; *Tellina*, *Syndesmya*, *Cardium*, STEPHEN, 801; *Unio*, STEUSLOFF, 904; STEUSLOFF, 905; *Tethys*, TAKAHASHI, 933; *Lymnaea truncatula* in N. Caucasus, TARNOGRADESKY & POPOV, 940; Scoresby Sound, E. Greenland, THORSON, 949; TOVIM, 968; Streams of S. Kyûshû [Japan], UENO, 984; VÄLIKANGAS, 990; VORSTMAN, 1010; WRIGHT, 1052.

Movements and Locomotion.—*Batillaria*, ABE, 1; Locomotory habits *Proserpina*, H. B. BAKER, 56; BEEBE, 79; Ciliary movement, BENAZZI, 81; Climbing habits of *Helicina orbiculata*, CHEATUM, 149; GERSCH, 331; KOLLER & STUDNITZ, 502; *Loligo pealii*, STEVENSON, 907; Muscular reactions, STUDNITZ, 919; TOVIM, 968; Ciliary movement, WORLEY, 1049.

Enemies, Defence and Protection.—Enemies *Polygyra inflecta*, ARCHER, 41; Food of Herring, LEBOUR, 555; *Arion hortensis* attacked and killed by *Carabus violaceus*, MOORE, 642.

Feeding Habits.—GELEI, 318.

Breeding Habits.—*Polygyra inflecta*, ARCHER, 41; *Oxytyle pulchella prototypus*, F. BAKER, 63; Reproduction Nudibranchiata-*Embletonia*, CHAMBERS, 142; FISCHER-PIETTE, 275; *C. nemoralis*, FISHER & DIVER, 285; *Limax maximus*, *cinereoniger*, *tenellus*; *Bielzia coerulans*, GERHARDT, 321; *Limapontia*, KEVAN, 479; *Purpura*, KOSTITZINE, 503; *Limax tenellus*, KÜNKEL, 518; *Littorina*, LINKE, 572; Genetics, C. OLDHAM, 688; PELSENEER, 715; *Ostrea*, PRYTHERCH, 766; Spawning, *Loligo pealii*, STEVENSON, 907; *Arion*, *Limax*, *Agriolimax*, J. & M. SZABO, 929.

Sex Proportion and Sex Change.—Sex and sex-modification, *Anodonta* figs., BLOOMER, 107; COE, 166; Sexual change, *Teredo*, COE, 167; Dimorphism in *Zonitoides*, WATSON, 1026.

Boring and Burrowing Habits.—Boring habits, BEEBE, 79; HAYASAKA, 396; KÜHNELT, 516.

Mode of Attachment.—Byssus, HAAS, 377.

Special Habits.—*Murex*, ALPERS, 26; *Arion* and *Limax*, ALTENA, 27; *Pecten*, HERTLING, 413; Breathing habits, HOFFMANN, 424; *Pleuroccera canaliculatum undulatum* Say, MAGRUDER, 595; MAZEK-FIALLA, 612; Cephalopoda, SCHMIDT, 847; *Loligo pealii*, STEVENSON, 907.

Habitat.—*Batillaria*, ABE, 1; *Polygyra infecta*, ARCHER, 41; Land mollusca in Great Britain, BOYCOTT, 124; CHEATUM & MOUZON, 152; Locality and saltness, FISCHER-PIETTE, 276; *Facelina*, N. FISHER, 284; HÄSLEIN, 394; *Limapontia*, KEVAN, 479; *Margaritana margaritifera*, KOBÄ, 497; VAN CLEAVE, 992.

Autotomy and Regeneration.—Shell repair, *Pleurodonte rostrata*, ANDREWS, 31; Restoration of shell, ANDREWS, 32; Shell injuries, *Polygyra*, FOSTER, 291; Regeneration, MAY, 611.

Adaptation to Environment.—*Polygyra infecta*, ARCHER, 41; BOYCOTT, 124; KINDLE, 483.

Association.—BOGAČEV, 115; BOYCOTT, 124; CRICKMAY, 202; Assoc. of fossil spp. with *Thyasira bisecta* in Korea Strait figs., NIINO, 671; PELSENEER, 715.

Acclimatisation, Migration and Dispersal.—Distribution Cephalopods in the North Sea, ADAM, 6; *Ostrea*, ARKELL, 44; CHEATUM, 150; American Pteropoda, COLLINS, 177; COTTON, 191; DONS, 233; Distribution geographical, DYRDOWSKA, 241; EKMAN, 245; *Vitrinopugio kotulae*, FIEBIGER, 262; Distribution of Moll. in Atlantic, FORREST, 289; FREYBERG, 295; GEYER, 333; Marine Plankton, JOHNSTONE, 459; Distribution and migration, LAMY, 553; MESSJATZEV, 621; Zoogeography, OKADA, 683; Geographical Pupillidae, PILSBRY, 731; Zoogeography, POLINSKI, 751; *Tylo-dina citrina*, PRUVOT-FOL & FISCHER-PIETTE, 765; *Ostrea*, PRYTHERCH, 766; RICKER, 800; Tellinidae, SALISBURY, 828; Distribution relative to altitude, SCHROTT, 853; Zoogeography, Soós, 886; VAYSSIÈRE, 996; Distribution in Perthshire, WATERSTON, 1025.

Aestivation and Hibernation.—*Pulmonata*, CHEATUM, 150; Artificial aestivation, *Helix aspersa*, FILHOL, 264.

Environmental Effects.—Environment cause of variation in shell growth of *Patella vulgata*, H. B. MOORE, 644.

Effects of Temperature.—RICKER, 800; STROUHAL, 918; Temperature, effect on *Congerina*, VORSTMAN, 1010.

Erosive Effects.—KLÄHN, 488.

Effect of Climate.—On Freshwater mollusca, CAWSTON, 138.

Effect of Salinity.—PEARSE, 714.

Cause of Death.—VAN CLEAVE, 992.

Rate of Growth.—*Pecten jessoensis*, BAZIKALOVA, 77; *Tellina*, *Cardium*, ELMHIRST, 249; Growth stoppage forming ledges in *Mytilus*, H. B. MOORE, 643.

Duration of Life.—Age and rate of growth, *Pecten jessoensis*, BAZIKALOVA, 77.

Parasitism, Commensalism and Parasites.—*Thyca* on *Linckia*, ADAM, 5; BEQUAERT & CLENCH, 87; CONNOLLY, 180; DALGLIESH, 205; C. L. & M. A. FENTON, 260; GAUTHIER, 314; In *Sepia officinalis*, GETZEL, 332; Unionidae, HOPKINS, 429; JEPPE, 456; Parasitism ciliates from fresh-water mussels, KIDDER, 482; LEFROU, 561; LINKE, 570; On *Trochus niloticus*, MONOD, 639; PILSBRY, 732; PRASHAD & RAO, 760; Parasites on *Lymnaea*, SCHROEDER, 852.

Nacreous Growths.—HOPKINS, 429.

Effect of Water.—Erosion of *Goniobasis* and *Anculosa*, BAILY, PEARL & WINSOR, 55; Effects of moisture, BOYCOTT, 124; *Succinea*, BAFFY & FISCHER, 772.

Effect of Lime.—On Land Mollusca, BOYCOTT, 124; Shell structure, C. OLDHAM, 689.

Miscellaneous.—Effect of Copper on *Ostrea*, PRYTHERCH, 766; Effects of chemical contents of water, RICKER, 800; Style sac in *Septaria*, *Cyclotopsis*,

Stomatodon and *Herostoma*, SESHAIYA, 865; Hermaphrodite duct *Isidorella* fig., QUICK, 767; Population, THORSON, 949.

VARIATION AND AETIOLOGY.

General.—*Goniobasis ancusula*, BAILY, PEARL & WINSON, 55; *Polygyra profunda* Say, recent and fossil, F. C. BAKER, 58; F. C. BAKER, 58; *Polygyra profunda*, BAKER, 65; BOETTGER, 112; *Anodonta cygnea*, ENTZ & SEBASTYÉN, 253; *Valvata tricarinata*, FURBOW, 305; *Aulacoceras sulcatum*, GHEYSELINCK, 335; *Ancusula*, *Lithasia* figs., GOODRICH, 341; American *Pleuroceridae*, GOODRICH, 342; *Unionidae*, GRAHLE, 357; *Cardium*, HAREGA, 393; KALTENBACH, 466; Shell growth *Patella vulgata*, H. B. MOORE, 644; *Anodonta*, PIERSANTI, 728; *Planorbidae* of Florida figs., PILSBRY, 740; *Melon-gena*, PILSBRY & VANATTA, 747; *Mitra scrobiculata*, RAVETTA, 776; *Corbicula maxima*, TAN, 937; Tectibranchs in the Mediterranean, TCHANG, 941; Carboniferous freshwater shells Lancashire (*Carbonicola*, *Anthracomya*), WRIGHT, 1054.

Teratology, Phylogeny and Relationship.—Abnormal growth of *Planorbis*, L. E. ADAMS, 11; Abnormal snails from Michigan, ARCHER, 38; BOETTGER, 112; BROCKMEIER, 127; *Ostrea*, COE, 166; COEN, 169; FOSTER, 291; HAAS, 377; American *Loricata*, IREDALE, 442; *Vallonia* fig., KEVAN, 481; Mantle defect in *Anodonta cygnea*, MRSIĆ, 656; *Planorbis*, *Valvata*, PIERSANTI, 727; PIERSANTI, 730; European shells, Land and Freshwater shells, URBANSKI, 986.

Evolution.—ARKELL, 44; BEEBE, 79; Evolution of Mixochoanitic Cephalopods, MILLER, 627; MILLER, 627; Degeneracy of Cephalopods, RAABE, 770; Fossil Cephalopods of Oran, ROMAN, 805; Tellinidae, SALISBURY, 828; Cephalopoda, SCHINDEWOLF, 840; SCHINDEWOLF, 842.

Variation in Form.—*Polygyra tridentata*, ARCHER, 39; *Polygyra inflecta*, ARCHER, 41; Shell form *Polygyra*, F. C. BAKER, 58; Canadian *Lymnaea*, F. C. BAKER, 60; Shell form figs., COTTON, 190; Form var. *pisana*, GERMAIN, 326; HAAS, 377; *Meretrix meretrix*, HAMAI,

387; HOFFMANN, 424; "Ledging" in *Mytilus edulis*, H. B. MOORE, 643; Variation in size and form of shell *Lymnaea peregra*, PIERSANTI, 726; Shell of *Tacheopsis*, SOÓS, 885.

Variation in Sculpture and Ornament.—*Polygyra profunda* Say, F. C. BAKER, 58; Sculpture, BOETTGER, 111; Colour ornamentation *C. nemoralis*, ELLIS & OLDHAM, 248; Shell sculpture, HÄNTZSCHER, 392; Sculpture in *Murex*, LEVETZOW, 567; Ornament in *Cypræidae* from Java, M. & F. A. SCHILDER, 837.

Variation in Colour.—*Helix nemoralis*, S. T. & B. W. BROOKS, 130; ELLIS & OLDHAM, 248; *H. pisana*, GERMAIN, 326; Shells of *Bradybaena*, IKEDA & EMURA, 440; KINDLE, 483; Albinism in *Arianta*, C. OLDHAM, 688; *Monetaria*, F. A. SCHILDER, 835; *Nucella lapillus*, WILKINS, 1036.

Sexual Variation.—Of gill in *Anodonta*, H. H. BLOOMER, 107; Hermaphroditism, *Anodonta*, figs., BLOOMER, 107; Sex ratios, *Ostrea*, COE, 166.

DISTRIBUTION.

(a) GEOGRAPHICAL.

(α) MARINE.

Arctic Ocean.—Iceland, ASKELSSON, 46; SALISBURY, 828.

Baltic Sea.—TANNER, 939; Ecology, VALIKANGAS, 990.

Mediterranean Sea.—COEN, 169; KUENTZ, 510; OTTO, 696; N. Africa, PALLARY, 702; SOLIGNAC, 881.

Black Sea.—BORCEA, 121.

North Atlantic Ocean.—*Architeuthis* in Yorkshire, ANON, 36; Provence, CHATELET, 147; Florida, CLENCH, 159; North Sea, DONS, 232, 233; DOUGHTY, 234; DOUGHTY, 235; Atlantic, FISCHER, 271; FISCHER-PIETTE, 272, 273; St. Servan, FISCHER-PIETTE, 277; 278; Atlantic Coast, Labrador to Texas, JOHNSON, 458; Portugal, R. LAMI, 546; English Channel, LEBOUR, 556; LELOUP, 562; North Sea *Littorina* genital system, LINKE, 571; MACDONALD & CLENCH, 584; SALISBURY, 828; North Sea divisions and distribution of Mollusca, STEPHEN, 902.

Atlantic Ocean, South.—Cape, BARNARD, 72.

Indian Ocean.—NARDINI, 665; S. India, PRASHAD, 758; Andamans, PRASHAD & RAO, 760; *C. fultoni* Sow., TOMLIN & SALISBURY, 966.

Red Sea.—LAMY, 549.

Malaysia.—Celebes, *Thyca*, ADAM, 5; Dutch East Indies, Cephalopoda, ADAM, 10; Java, COERT, 168; JUTTING, 464; Dutch East Indies Oncidians, LABBÉ, 538; Sumatra Mytilidae, LAMY, 548; Darnley I. (New Guinea), MACKAY, 587; Java, OOSTINGH, 693; Sarawak *Lucina* sp. n., SALISBURY, 827; South Java Cypraeidae, M. & F. A. SCHILDER, 837; Dutch East Indies Cypraeidae, M. & F. A. SCHILDER, 838.

Pacific Ocean.—Australia, ALLAN, 22; Japan Nubibranchiata, BABA, 52; Taiwan, HAYASAKA & TAN, 397; Japan, KAWAMOTO, 473; Hong Kong Molluscan shells of, KING & PING, 485; Japan, KURODA, 519; Sagami Bay, Japan, Some rare shells from, KURODA, 520; Japan, KURODA, 525; Kurile Islands, KURODA & Koba, 528; H. N. LOWE, 576; Japan, NOMURA, 675; Manchuria, NOMURA & ZINBÔ, 678; Northern Kuriles, OKADA & Koba, 685; Philippines, OLDROYD, 690; Chamidae, *Periploma* and *Glycymeris*, PILSBRY & LOWE, 745; New Zealand, POWELL, 756; SALISBURY, 828; Japan, SEKI, 860; Vancouver, G. M. SMITH, 879; California, STRONG, 915; Acapulco Mexico, STRONG, HANNA & HERTLEIN, 916; West American *Liotia*, STRONG, 917; Japan, IWAO TAKI, 936.

Southern Ocean.—COTTON, 189; COTTON & GODFREY, 193, 194; S. Australia, COTTON & GODFREY, 195, 196; S. Aust., IREDALE, 443; Atlantic sec. of Antarctic, Plankton, MACKINTOSH, 589; MARWICK, 606; Terra Nova Nudibranchiata, ODHNER, 681; SALISBURY, 828.

(β) Non-Marine.

Greenland.—East Greenland Cretaceous, BØGVAD, 116; East Greenland Cretaceous, NOE-NYGAARD & SÄVE-SÖDERBERGH, 674; E. Greenland Cretaceous, ROSENKRANTZ, 807; East Greenland, Jurassic, Lias, ROSENKRANTZ, 808; North Greenland,

TEICHERT, 943; Scoresby Sound Committee's 2nd E. Greenland Expedition 1932, THORSON, 950.

Sweden.—Limestone fossils, HADDING, 386; Bornholm, Lias, HÖHRE, 425; Dalarna [Sweden], O. ISBERG, 444; Sweden, RYDING, 826.

Denmark.—Fauna, JENSEN & SPÄRCK, 455; SCHLESCH, 844.

Germany.—EHRMANN, 244; Schleswig-Holstein, GRAHLE, 357; Brandenburg, JAECKEL, 452.

Great Britain and Ireland.—York (List), ALLEN, 25; Lincolnshire, BATTERS, 75; Northumberland and Durham, list of Mollusca, BLACKBURN, 104; Habitats of Land Mollusca, BOYCOTT, 124; Shropshire Cambrian fossils, COBBOLD & POCOCK, 165; Thanet Eocene and Pleistocene, J. E. COOPER, 183; Perthshire *Microgordia*, DAVIDSON, 214; Studland, Dorset, DIVER & GOOD, 229; Scolt Head Island, Norfolk, ELLIS & OLDFHAM, 248; Falmouth, Oban, Jersey, GARDINER, 310; Great Britain—Littoral Zone, GARDINER, 310; Somerset, Cypraea in Saxon grave, JACKSON, 445; Lancs. and Cheshire, Moll. of, JACKSON, 446; Great Brit., marine fossils, JACKSON, 447; Firth of Forth *Lymnaea*, KEVAN, 480; Antrim, MAY, 608; Littoral Fauna of Windermere, MOON, 641; Yorks, MOREHOUSE, 645; Semerwater list of spp., MOREHOUSE, 646; Lincolnshire, MUSHAM, 661; Swansea notes, QUICK, 769; Britain gault, SPATH, 890; Hastings district, TOMLIN, 955; Shetlands *Tellina britannica*, TOMLIN, 964; Guernsey, TOMLIN, 965; Swansea fossils, TRUEMAN, 974; Yorks fossils, TRUEMAN, 975; Scotland occurrence of *Amnicola taylori* and *Bithynia leachii*, WATERSTON, 1024; Perthshire, WATERSTON, 1025; Co. Down, *Planorbis corneus* in, WELCH, 1031; Lancashire, Moll. of Coal measures, WRIGHT, 1053; Southampton Lutetian, WRIGLEY, 1055.

Belgium.—Fossils, MAILLIEUX, 596.

France.—Fossils of Béziers, ALBAILLE, 17; S. Servan, FISCHER-PIETTE, 278; Patella, FISCHER-PIETTE, 281; Saint-Benoit, GAYRAUD, 315; Cretaceous, HOFFET, 421; Gray (France) fossils, MAIRE, 597; (S.-E.) *Hippurites*, RICHTER, 799.

Italy.—Central Italy, BISACCHI, 102; GAMBETTA, 308, 309; RENSCH, 790; J. WAGNER, 1019.

Spain.—*Hippurites*, ASTRE, 49; Rudistes, KLINGHARDT, 491.

Austria.—Tyrol, JAECKEL, 450; List Weser district, JAECKEL, 451.

Hungary.—Budapest, ABRAHAM & MODLINGER, 3; DUDICH, 240; West Hungary, JAECKEL, 448; Soós, 884, 886; Hungarian, Croatian and Dalmatian Limacidae, WAGNER, 1013; Hungary, J. WAGNER, 1018.

Serbia.—MILOVANOVIC, 634.

Bulgaria.—H. WAGNER, 1015.

Turkey.—Constantinople n. sp. *Milax*, WAGNER, 1016.

Europe and Mediterranean.—Pupillidae, PILSBRY, 731.

Cyprus.—HAAS, 380.

Poland.—Protection of species, URBANSKI, 987.

Russia.—Bessarabia, AMBROJEVICI, 28; Caucasus, Upper Pliocene spp. n., DAVIDACHVILI, 212; OVČINNIKOV, 701; Teredinae, ROCH, 801; North Caucasus *Lymnaea truncatula*, TARNOGRADSKY & POPOV, 940; WNUKOWSKY, 1046.

Siberia. — Freshwater Mollusca, JOHANSEN, 457; Nova-Zembla Exped., MILARADOVICH, 633; Siberia, MOZLEY, 653; Siberian Pupillidae, PILSBRY, 731.

Japan and Korea.—Trias fossils, DIENER, 227; Sapporo, Japan Unionidae of, HAYASHI, 398; IKEDA & EMURA, 440; History of Conchology, KANAMARU, 468; *Margaritana margaritifera*, Koba, 497; Korea Ordovician, KOBAYASHI, 498; Korea, Lower Ordovician, KOBAYASHI, 499; List of genera of Japanese Mollusca, KURODA, 521; Pulmonata, KURODA, 523; Opisthobranchia, KURODA, 523; Akasaka Prov. Mino Japan, abundance of shells, KURODA, 524; NIINO, 672; Nikko, Japan, Freshwater shells of, OKADA, 684; Japan, Korea and China, Pupillidae, PILSBRY, 731; Korea and Manchuria, *Bulinus* from, SHIBA, 869; Kyûshû, UENO, 984.

China.—HAAS, 379, 384; PILSBRY, 739; N. West China, PING & YEN, 748; China gastropods, PING & YEN, 749; China Ordovician, YÜ, 1058.

Burma, Indo-China, Malay Peninsula.—Pupillidae, PILSBRY, 731.

Malaysia.—E. Indies, HAAS, 384; Java and Sumatra, HOFFMANN, 423; Dutch East Indies, JUTTING, 463; East Indies, KRUMBECK, 509; Malay, LAIDLAW, 544; East Indies, Tertiary, MARTIN, 605; Austro-Malayan and Melanesian Ids., Pupillidae, PILSBRY, 731; Indo-Malayan Islands, Philipines, Java, Borneo, etc., Pupillidae, PILSBRY, 731; East Indies, RENSCH, 786; Sumatra, RENSCH, 787; Sunda, RENSCH, 789; Bali, Lombok, Sumbawa, Flores, Sumba, RENSCH, 791.

India and Ceylon.—Pupillidae, PILSBRY, 731; Madras, SCHLESCH, 843; Calcutta Salt Lakes, SEWELL, 867.

Asia.—West Tibet, Rudists, KLINGHARDT, 492; Trias Fossils of Dopsang, MERLA, 619; Caracorum, Permian, MERLA, 620; Northern Asia, MOZLEY, 655; Central Asia, Transcaucasus, Turkestan, N. China Pupillidae, PILSBRY, 731; Asia Minor, *Tacheopsis*, Soós, 885; Central Asia, VIALOV, 1002.

Persia.—Kerman, S. Persia, *Melanopsis*, BIGGS, 98; SCHLESCH, 843.

Syria.—Palestine oligocene, L. R. COX, 199; Syria, MAZEK-FIALLA, 612; NEGRI, 668; Palestine, PICARD, 724.

Africa, North.—Marocco, CLARIOND, 156; Sudan, COX, 200; Algeria, GAUTHIER, 314; Expedition of M. A. Chevalier 1931-32, GERMAIN, 323; Egypt, HELMY, 402; Algeria, Morocco, MENCHIKOFF, 616; PALLARY, 702; Central Sahara, PALLARY, 705; Ethiopian Pupillidae, PILSBRY, 731; Abyssinia, THIELE, 946.

Africa, Central.—BOETTGER, 113; GERMAIN, 324, 325; *Viviparus*, HAAS, 382; Mumbwa, HAAS, 384; Fossils, LUCAS, 579; Cretaceous, RENNIE, 784.

Africa, East.—Somaliland, BISACCHI, 101; Tendaguru beds, SCHUCHERT, 854; THIELE, 946.

Africa, West.—*Achatina*, BEQUAERT & CLENCH, 87; Belgian Congo, BEQUAERT & CLENCH, 88; CONNOLLY,

180; DARTEVELLE, 210; DEGNER, 219; FURON & KILIAN, 304; Sahara and W. Africa, GERMAIN, 323; Belgian Congo, HAAS, 383; Senegal, LEFROW, 561; THIELE, 946.

Africa, South.—*Goniodoris* sp. n., BARNARD, 71; CONNOLLY, 180; S. Africa, *Natalina*, *Rhytida*, WATSON, 1027; Cape, WITTMANN, 1045.

Alaska.—Yukon, LEES, 560; WILLETT, 1040.

Canada.—Saskatchewan, F. C. BAKER, 59; Canada, F. C. BAKER, 61; FOERSTE, 286; N. Alberta, Lower Cretaceous, McLEARN, 594; Canada, MOZLEY, 651, 654; Saint-Laurent, PREFONTAINE, 761; Ontario, RICKER, 800; Saskatchewan Pleistocene, L. C. RUSSELL, 820; Alberta Jurassic, WARREN, 1022; British Columbia Cretaceous, WARREN, 1023.

United States (as a whole).—*Rumina decollata*, CHEATUM, 148; Carboniferous fossils, DELÉPINE, 221; DOLLEY, 231; FOERSTE, 286; Pleuroceridae, GOODRICH, 342; RICHARDS, 796.

United States (N.-E.).—Michigan, ARCHER, 37, 38; Illinois, F. C. BAKER, 58; Illinois river valley mollusca, BAKER, 66; BILLINGS & CLEAVES, 100; Massachusetts, CLENCH, 161; New Jersey, C. L. & M. A. FENTON, 260; Missouri Pleistocene, GREGER, 363; Vermont, HOWELL, 434; Connecticut Salt marshes, KNIGHT, 493; Allegany State Park, N.Y., PINNEY & COKER, 750.

United States (S.-E.).—Texas, snails of Dallas County, CHEATUM & BURT, 151; Florida, DE BOE, 217; Kentucky, GIOVANNOLI, 336; Arkansas Carboniferous, GIRT, 337; Texas, limestone fossils, KIRK, 487; Florida fossil, *Vulsella*, MACNEIL, 590; Florida, *Liguus* var. n., PFLUGGER, 723; Florida Planorbidae figs., PILSBRY, 740; Florida Planorbidae recorded in error, PILSBRY, 740; Tennessee, RICHARDS, 797; Alabama, Unionid, SCHALIE, 831; Florida, VANATTA, 991; Florida *Unio* spp. n., WRIGHT, 1050; Florida, B. M. WRIGHT, 1051.

United States (W.).—California *Helisoma*, F. C. BAKER, 62; Western States Lymnaeidae, F. C. BAKER, 64; S.

Dakota, H. B. B[AKER], 69; California, E. P. & E. M. CHACE, 140; Oregon, E. P. & E. M. CHACE, 140; Montana, CORYELL & SALMON, 187; Kansas, Upper Cretaceous, ELIAS, 246; Washington, EYERDAM, 256; Colorado Carboniferous, GIRT, 337; Calif. Miocene, GRANT & QUAYLE, 359; *Planorbis opercularis* in California, GREGG, 364; Western States, J. HENDERSON, 405; Western States Lymnaeidae, HENDERSON, 406; California Tertiary, HERTLEIN, 411; HERTLEIN, 411; California, PILSBRY & LOWE, 746; Rocky Mountain Ammonites, SCHINDEWOLF, 841; California, A. G. SMITH, 878; WILLETT, 1039.

West Indies.—Cuba, AGUAYO & JAUME, 13; Cuba, AGUAYO, 14; Jamaica, B. BAKER, 57; H. B. BAKER, 67; West Indies, FORREST, 289; Bermuda Pliocene, KUTCHKA, 531; W. Indies, PILSBRY, 740; Trinidad, RUTSCH, 825; Cuba land shells spp. n., WELCH, 1029, 1030.

Mexico.—Tertiary, GARDNER & BOWLES, 311; Permian, KING, 484; Lower California, MANGER, 598; Fossils, MUELLERRIED, 659; PILSBRY, 740.

America, Central.—ZETEK, 1060.

South America.—COIFMANN, 171; WITTMANN, 1045.

Venezuela.—BERRY, 95; MARSHALL, 604; RUTSCH, 822.

Paraguay.—MARSHALL, 604.

Guatemala.—MACGILLAVRY, 585.

Brazil.—IHERING, 439; Cretaceous, Jurassic, Trias and Pleistocene, MAURY, 607; Fossils, OLIVIERA, 691.

Australia.—ALLAN, 24; Victoria Tertiary, CHAPMAN & CRESPIAN, 144; CHAPPLE, 145; Western Australia *Hyridella bardwelli* sp. n., CLENCH, 158; Western Australia fossils, HOSKING, 430; Australia, HOWCHIN, 432; Australia Freshwater Mussels, IREDALE, 441; Australia and Tasmania, Pupillidae, PILSBRY, 731; S.E. Australia, WITTMANN, 1045.

Victoria.—GABRIEL, 306.

Pacific Islands. — Philippines, BARTSCH, 73; Makatea, Land shells,

COOKE, 182; Salvage Ids., *E. pisana*, GERMAIN, 326; Fiji Ids., character and origin of mollusca, GERMAIN, 328; Fiji, LADD, 539; Hawaiian Islands Pupillidae, PILSBRY, 731; Polynesia and Micronesia, Pupillidae, PILSBRY, 731; Hawaiian Helicinidae, PILSBRY & COOKE, 743; Partulidae Tonga, PILSBRY & COOKE, 744; Philippines, RENSCH, 788; Bismarck Archipelago, I. RENSCH, 794; Solomon Id., I. & B. RENSCH, 795.

New Zealand.—Pliocene, POWELL, 755.

Indian Ocean Islands.—Madagascar Cretaceous, COLLIGNON, 175; Mascarene Is., Madagascar, Comoros, Pupillidae, PILSBRY, 731.

Atlantic Islands.—N. America and Caribbean Islands Tertiary Pteropods, COLLINS, 177; FORREST, 289; St. Helena Pupillidae, PILSBRY, 731; Madeira, Azores, Canary Ids., Cape Verde Ids., Pupillidae, PILSBRY, 731.

(b) STRATIGRAPHICAL.

Quaternary. — Fiji, LADD, 539; Holocene, Co. Down, MACDONALD, 583; Paraguay, MARSHALL, 604; MITZOPoulos, 635; Holocene Bohemia, PETRBOK, 720; N.W. China, PING & YEN, 748; Post-Pleistocene, S. Saskatchewan, L. C. RUSSELL, 820; W. Indies, TRECHMANN, 971; VECCHI, 997.

Pleistocene.—Venezuela, BERRY, 95; Thanet, J. E. COOPER, 183; California, GRANT & STRONG, 358; Missouri, GREGER, 363; Marias Islands, HERTLEIN, 412; KENNARD & LUCAS, 477; Fiji, LADD, 539; Europe, LEONARDI, 565; MANGER, 598; Brazil, MAURY, 607; *Oreohelix*, PILSBRY, 738; S. Saskatchewan, L. C. RUSSELL, 820; Manchukuo, TOKUNAGA & NAORA, 953; Fossils, Eastern America p. 43, WOODWORTH & WIGGLESWORTH, 1048.

Tertiary.—Asia, BORNEMANN & OTHERS, 122; Victoria, CHAPMAN & CRESPIAN, 144; Victoria, CHAPPLE, 145; American Pteropods, COLLINS, 177; Pearls, DARTEVELLE, 208; GARDNER & BOWLES, 311; Haskovo and Burgas, GOČEV, 339; KARRENBERG, 472; Loanda, W. Africa, KELLER, 474; Europe, KUHNEL, 515; Travancore, KUMAR & PICHAMUTHU, 517; Fiji,

LADD, 539; Belgium, MAILLEUX, 596; MARTIN, 605; POLUTOFF, 757; RUTSCH, 823; Trinidad, RUTSCH, 824; E. Indies, SIEVERTS, 873; Australia, SINGLETON & WOODS, 876; TRECHMANN, 971; U.S.A., TUCKER, 977; Europe, VITALIS, 1006.

Pliocene.—Argentina, AMEGHINO, 29; Australia, COTTON, 192; Upper Pliocene, Georgia, Caucasus, DAVIDACHVILI, 212; Oregon, HENDERSON & RODECK, 407; Bermuda, KUTCHKA, 531; Japan, NIINO, 671; Japan, OTUKA, 697; California, PILSBRY, 733; Croatia, POLJAK & SUKLJE, 752; Upper Pliocene Cape Runaway, New Zealand, POWELL, 755; Neogen, Venezuela, RUTSCH, 822; Kamschatka, SLODKEVIC, 877; Europe (Transsylvania), Soós, 883; W. Indies, TRECHMANN, 971; VECCHI, 997; Neogene Italy, VENZO, 1000; Pliocene fossils Gay Head, Eastern America, WOODWORTH & WIGGLESWORTH, 1048.

Miocene.—Argentina, AMEGHINO, 29; Middle Miocene Mexico, R. L. COLLINS, 178; Palermo, FABIANI & RUIZ, 257; California, GRANT & QUAYLE, 359; GRILL, 367; Sarmatien Russia, KOLESNIKOV, 501; Fiji, LADD, 539; Italy, LIPPARINI, 573; Japan, NIINO, 671; Servia, PAVLOVICA, 713; RUSSO, 821; SIEBER, 871; Kamchatka, SLODKEVIC, 877; Colombia, TOLMACHOFF, 954; Neogene Trentino, VENZO, 999; Fossils from Greensand Eastern America, WOODWORTH & WIGGLESWORTH, 1048; Pearls, ZILCH, 1062.

Oligocene.—Argentina, AMEGHINO, 29; CORROY, 185; Palestine, COX, 199; GRILL, 367; Syria, KELLER, 476; KLÄHN, 489; Florida, MANSFIELD, 599; Unionidae, Swiss, MODELL, 636; Japan, NIINO, 671; REINA, 781; SERGIO, 862; Kamschatka, SLODKEVIC, 877; Upper Oligocene of Washington, TEGLAND, 942; Japan, UEJI, 983; English Cassididae, A. WRIGLEY, 1056.

Eocene.—Argentina, AMEGHINO, 29; California, CLARK, 157; Thanet, J. E. COOPER, 183; Tritons in Mus. d'Elbeuf, COULON, 197; DAINELLI, 204; Bulgaria, GOČEV, 340; California, HANNA, 390; Europe, KÜHN, 511; Europe, KÜHN, 512; LAFFITTE, 543; NEGRI, 668; REINA, 781; N. Zealand, SERVICE, 864; Central Asia, VIALOV, 1002; Lutetian Southampton, WRIGLEY, 1055; English Cassididae, A. WRIGLEY, 1056.

Mesozoic.—Celebes, BROILL, 128; U.S.A., HENDERSON, 404; Celebes, STOLLEY, 911.

Cretaceous.—Neogene, ALBAILLE, 18; (Garumnien), ALIBERT, 19; Aptien Spain, ASTRE, 48; Ardennes, BENOIT, 82, 85; Cénomanien Lucquy, BENOIT, 86; Syria-Palestine, BLANCKENHORN, 105; Greenland, BØGVAD, 116; Bulgaria, BONČEV, 118; CHECCHIA-RISPOLI, 153; Madagascar, COLLIGNON, 173; Albien Madagascar, COLLIGNON, 174; Cenomanien, Madagascar, COLLIGNON, 175; Turonian Madagascar, COLLIGNON, 176; Upper Cretaceous, CORYELL & SALMON, 187; DAINELLI, 204; Cretaceous pearls, DARTEVELLE, 208; France, DOUVILLÉ & O'GORMAN, 236; Upper Cretaceous, Kansas U.S.A., ELIAS, 246; New Jersey, C. L. & M. A. FENTON, 260; Niger, FURON, 302; FURON, 303; Launsdorf Kärnten, GUGENBERGER, 372; Cenomanien, HÄNTZSCHEL, 391; Cape Verde Islands, HEINZ, 400, 401; Montana, Wyoming, and Colorado, HENDERSON, 404; Syria, KELLER, 475; Santonien, KLINGHARDT, 491; Africa, LAFFITTE, 541; Senonien, Algeria, LAFFITTE, 542; Russia, LUPPOV, 582; Guatemala, MACGILLAVRY, 585; Canada, McLEARN, 593; Northern Alberta, McLEARN, 594; Belgium, MAILLIEUX, 596; N.E. Brazil, MAURY, 607; Servia, MILOVANOVIC, 634; Mexico, MUELLERREID, 657; Mexico, MUELLERREID, 658; Mexico, MUELLERRIED, 659; Japan, NAGAO, 662; Japan, NAGAO, 663; E. Greenland, NOE-NYGAARD & SÄVE-SÖDERBERGH, 674; Japan, NOMURA & LINBO, 677; NOSZKY, 679; Peru, OLSSON, 692; Tripolitania, PARONA, 708; Caracorum, PARONA, 710; POLUTOFF, 757; S. Africa, RENNIE, 784; E. Greenland, ROSENKRANTZ, 807; Aptien, East Georgia Caucasus, ROUCHADZÉ, 815; Lower Cretaceous, earliest *Tellina* found in, SALISBURY, 828; Turonien, Africa, SCHNEEGANS, 848; SPATH, 890; India, SPATH, 892; Cape Verde Islands, STAHLCKER, 896; Europe, STEFANOV, 899; STEPHENSON, 903; Misol East Indies, STOLLEY, 910; TZANKOV, 980; Turonien of Bulgaria, TZANKOV, 981; Syria, VAUTRIN, 995; Italy, VENZO, 998; British Columbia, WARREN, 1023; Lower Cretaceous Spitzbergen, WEIR, 1028; Western Queensland, WHITEHOUSE, 1035; Europe, WIONT-

ZEK, 1044; Upper Cretaceous fossils, Cape Cod, WOODWORTH & WIGGLESWORTH, 1048; France and Bohemia, ZAHÁLKA, 1059.

Jurassic.—Corallian British Lamellibranchia, ARKELL, 43; Gt. Brit., Fuller's Earth, *Ostrea*, ARKELL, 44; E. Balkans, BERNDT, 93; Madagascar, BESAIKIE, 97; Normandy, BIGOT, 99; Caucasus, CHIKLACHEV, 155; Toarcien Lorraine and Bassigny, CORROY & GÉRARD, 186; California, CRICKMAY, 202; Russia, DAVIDACHVILI, 213; DREYFUSS, 237; Bajocien, DREYFUSS, 238; Ontario, FAIRBAIRN, 258; Toarcien Aveyron, GÉRARD, 319; France, GÉRARD & BICHELOU, 320; Hungary, KOVÁCS, 504; East Indies, KRUMBECK, 509; West Sicily, KÜHN, 513; Europe, KÜHN, 514; Yukon, LEES, 560; Germany, LÖRCHER, 575; Brazil, MAURY, 607; MENCHIKOFF, 616; MERLA, 617; Mexico, MUELLERRIED, 658; Fossils in col. V. Maire, NASSANS, 666; Callovian, Oxfordian, PARONA, 709; Bathonien, N. Africa, ROMAN, 805; Bédarieux, ROQUEFORT, 806; E. Greenland, ROSENKRANTZ, 808; SCHUCHERT, 854; Gault, Britain, SPATH, 890; Kachh, SPATH, 891; India, SPATH, 892; Germany, STOLL, 909; East Indies, STOLLEY, 910; Syria, VAUTRIN, 994; Alberta, U.S.A., WARREN, 1022; Jurassic Spitzbergen, WEIR, 1028.

Lias and Rhaetic.—France, ABRARD, 4; Central Carpathians, ANDRUSOV, 34; Germany, BODE, 108; Pyrenees, DUBAR, 239; Morocco, FALLOT, MORET & ROCH, 259; Birnholm, Baltic, HÖHRE, 425; HUBER, 437; KOVÁCS, 505; Middle Lias, Bakony, Hungary, KOVÁCS, 506; Lombardia, NEGRI, 669; Bédarieux, ROQUEFORT, 806; Greenland, ROSENKRANTZ, 808; Europe, TRAUTH, 969.

Triassic.—ANDRUSOV, 35; E. Balkans, BERNDT, 93; DAINELLI, 204; Japan, DIENER, 227; Tonkin, FROMAGET, 297; France, FROMAGET, 298; Europe, GUGENBERGER, 371; Arizona, HENDERSON, 404; HUBER, 437; KLEINSORGE, 490; Italy, KUTASSY, 527; Hungary, KUTASSY, 528; KUTASSY, 529; Trias, KUTASSY, 530; Europe, KUTASSY, 530; Brazil, MAURY, 607; Dipsang, MERLA, 619; Europe, MIGLIORINI & VENZO, 624; Caracorum,

PARONA, 710; Europe, PETKOVIĆA, 717; Bédarieux, ROQUEFORT, 806; Germany, SCHNETZER, 849; Soos, 888; Ammonites, SPATH, 889; Hungary, VIGH, 1004; Spitzbergen, WEIR, 1028.

Paleozoic.—Marocco, CLARIOND, 156; Caracorum, PARONA, 710; N. America, RUEDEMANN, 818.

Permian.—Madagascar, ASTRE, 47; Kanin peninsula (Russia), FREDERICKS, 294; China, GRABAU, 347; Sicily, GREGORIO, 365; Mexico, KING, 484; Belgium, MAILLIEUX, 596; Himalaya, MERLA, 620; U.S.A., MILLER & CLINE, 629.

Carboniferous.—BISAT, 103; DELÉPINE, 221; Colorado and Arkansas, GIRTY, 337; GRABAU, 352; U.S.A., J. B. KNIGHT, 494; U.S.A., J. B. KNIGHT, 495; U.S.A., J. B. KNIGHT, 496; China, LICHAREW, 568; Belgium, MAILLIEUX, 596; MILLER, 626; Oklahoma, U.S.A., MILLER & CLINE, 628; N. America, MILLER, DUNBAR & CONDRÁ, 630; U.S.A., MILLER & OWEN, 632; Yorkshire, TRUEMAN, 975; Japan, UELI, 982; Japan, UWADI, 989; Lancashire, WRIGHT, 1053.

Devonian.—Europe, BERGER, 90; GRABAU, 349, 350; Belgium, MAILLIEUX, 596; Europe, OPITZ, 694; PFAB, 721; SCHINDEWOLF, 841; U.S.A., WILLARD, 1037.

Silurian.—Dolomite Ohio, Ontario, Wisconsin, Iowa, FOERSTE, 286; ISBERG, 444; Belgium, MAILLIEUX, 596; Belgium, MICHOT, 623; PFAB, 721; England, F. R. C. REED, 779.

Ordovician.—China, GRABAU, 348; ISBERG, 444; Korea, KOBAYASHI, 498; Lower Ordovician of Chosen [Korea], KOBAYASHI, 499; Greenland, KOCH, 500; Girvan, LAMONT, 547; Belgium, MAILLIEUX, 596; Kashmir, F. R. C. REED, 778; N. America, SARDESON, 829; Norway, STRAND, 914; China, YÜ, 1058.

Cambrian.—COBBOLD, 164; Shropshire, COBBOLD & POOCK, 165; GRABAU, 354; Vermont U.S.A., HOWELL, 434; Belgium, MAILLIEUX, 596; PFAB, 721; Kashmir, F. R. C. REED, 778; Europe, SCHWARZBACH, 856.

III.—SYSTEMATIC INDEX.

N.B.—FULL REFERENCES ARE GIVEN ONLY IN THE CASE OF A NEW GENUS, SPECIES OR VARIETY. IN OTHER CASES THE NUMERAL IN “Large bold Clarendon” REFERS TO THE LIST OF TITLES WHERE THE FULL REFERENCE WILL BE FOUND. IN THE CASE WHERE THE REFERENCE IS GIVEN IN THE SYSTEMATIC PART, THE VOLUME NUMBER IS PRINTED IN **Smaller Clarendon**.

Note.—The following arrangement is based on Pelseneer.

Amphineura.

POLYPLACOPHORA.

Cryptochiton, WINCKWORTH 1043.

Dichachiton is a synonym of *Cryptoplax* Blainville, WINCKWORTH 1043.

Hamachiton is a synonym of *Acanthochitona* Gray, WINCKWORTH 1043.

Haploplax smaragdina figs., MACKAY 588.

Ischnochiton (*Chartoplax*) *pura*, I. *crispus*, figs., MACKAY 588.

Loricates, abnormal, IREDALE 442.

Polyplacophora of Belgian coasts, LELOUP 562.

Rhyssoplax excellens from Darnley Island, New Guinea, figs., MACKAY 587.

Gastropoda.

STREPTONEURA.

ASPIDOBRANCHIA.

DOCOGLOSSA.

ACMAEIDAE, PATELLIDAE, LEPETIDAE.

Acmaea striata mitchelli subsp. n. southern Luzon, Philippines, OLDROYD Philipp. J. Sci. Manila 52 2 1933, p. 205 pl. 1 f. 1-4.—*Acmaea virginea*, BOUTAN 123.—*Acmaea persona* diurnal movements, RICHARDSON 798.—*Acmaea* v. *Patelloida* (The last name is to be used), WINCKWORTH 1041.

Atalacmea multilinea sp. n. N. Otago N.Z., POWELL Trans. Proc. Roy. Soc. N.Z. 64 2 1934 p. 154 pl. 21 f. 1-3.

Cellana nigrolineata, eucosmia, nerves of heart, SUZUKI 926.

†*Conchopeltis? unicarinata* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 358 pl. xxxii f 3-4.

Helcion pellucidum, GERSCH 331.

†*Helcionella oblonga, rugosa*, COBBOLD & POOCK 165.

†*Palaeacmaea hampakuensis* 359 pl. iv f. 1-4, pl. v f. 10-12; *sohsanensis* 359 pl. v f 5-6 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Palaeacmaea compressa, constricta*, MELDINGER 615.

Lotia gigantea diurnal movements, RICHARDSON 798.

Patella (Patellidea) tara sp. n. Andamans, PRASHAD & RAO Rec. Ind. Mus. Calcutta 36 1934 p. 1 pl. 1 f. 1, 2.—*Patella vulgata*, DONS 233.—*Patella lusitanica, intermedia, vulgata, depressa* rad. teeth figs., FISCHER-PIETTE 281.—*Patella vulgata, athletica*, JONES, McCANCE & SHACKLETON 460.—*Patella vulgata*, KRÜGER 507.—*Patella vulgata* shell growth relative to environment, H. B. MOORE 644.

†*Patella trauthi* sp. n. Trias Europe, KUTASSY Mag. K. földt. Int. Ésk. Pest. 64 4-6 1934 p. 68 pl. ii f. 13-14.

Patina pellucida, N. FISHER 283.

Saptadanta nasika gen. et sp. n. (Lepetellidae), Andamans, PRASHAD & RAO Rec. Ind. Mus. 36 1934 pp. 1-4 pl. 1 f. 3, 4 and text-fig.

†*Scurria triadica* sp. n. Trias Europe KUTASSY Mag. K. földt. Int. Ésk. Pest. 64 4-6 1934 p 67 pl. ii f. 8-9.

RHIPIDOGLOSSA.

PLEUROTOMARIIDAE, BELLEROPHONTIDAE, HALIOTIDAE, FISSURELLIDAE.

Amblychilepas javanicensis Lk. fig., COTTON & GODFREY 193.

Austroglaphis gen. nov. of Fissurellidae type *Diodora lincolniensis* Cotton 1930, COTTON & GODFREY S. Aust. Nat. 15 2 1934 p. 52 pl. 1 f. 9.

†*Bellerophon compressus* sp. n. Permian China, GRABAU Palaeont. sinica B8 3 1934 156 pl. xi f. 9, 10.

†*Bucanopsis tsuibonensis* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 361 pl. vi f. 1-8.

Cosmetalepas concatenatus Cr. & Fsch. figs., COTTON & GODFREY 193.

†*Didymodon (Didymodon) blaschkei* sp. n. Jurassic Russia, HABER Foss. Cat. 65 1934 p. 388, "vide Appendix" [not published].

Discotoma sec. n. of *Ditremaria* type *Ditremaria amata* Orb., HABER Foss. Cat. 65 1934 p. 368.

†*Ditremaria (Ditremaria) bellampensis* p. 329; *cotteanana* p. 335; *gemmellaroi* p. 340; *hamptonensis* p. 344; *siciliana* p. 360; *D. (Discotoma) chordulata* p. 373, spp. n.; *mastoidea sequanica* var. n. p. 381; *schlosseri* p. 383; *zitteli* p. 386, spp. n.; all ex Jurassic Europe, HABER Foss. Cat. 65 1934, "vide Appendix" [not published].

Ditremariinae subfam. n. p. 320, HABER "vide Appendix" [not published] Foss. Cat. 65 1934.

†*Eccyliopterus dainellii* sp. n. p. 60 pl. x f. 4 Permian Caracorum, GORTANI & MERLA Sped. Ital. Filip. Himalaia, Bologna 5 1934.

Emarginula patula, flindersi Cotton, *rugosa* Q. & G. figs., COTTON & GODFREY 193.

†*Euconospira hermosana* sp. n. Colorado Carboniferous, Girty J. Wash. Acad. Sci. 24 6 1934 p. 523 f. 10-12.

[Fissurellidae] Australian Shells, ALLAN 22.—Fissurellidae S. Australia COTTON & GODFREY 193.

Haliotis tuberculata, BOUTAN 123.

Hemitoma submarginata Blv. fig., COTTON & GODFREY 193.

†*Hyolithes (Orthotheca) striato-sulcatus* sp. n. p. 61 pl. x f. 6 Permian Caracorum, GORTANI & MERLA Sped. Ital. Filip. Himalaia, Bologna 5 1934.

†*Lamprotula nojiinensis* sp. n. (*Lamprotura* in expl. of pl.) Carboniferous Japan, UWADI J. Geol. Soc. Tokyo 41 488 1934 p. 262 pl. vii.

†*Lesueurilla de-fillippii* sp. n. p. 57 pl. viii f. 5-9, pl. ix f. 1-5; *L. d. semiplana* f. n. p. 59 pl. ix f. 6-8; *L. d. applanata* f. n. p. 59 pl. x f. 1-2; *L. d. profundata* f. n. p. 60 pl. x f. 3

Permian Caracorum, GORTANI & MERLA Sped. Ital. Filip. Himalaia, Bologna 5 1934.

†*Liospira taikakuensis* 368 pl. vii f. 7-8; *shohakuensis* 368 pl. vii f. 12-13, 15-16 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Lophospira endoi* 366 pl. ix f. 1-4; *kinosakii* 367 pl. ix f. 27-28; *tateiwai* 367 pl. ix f. 5-7 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

Macrochisma producta A. Ad. fig., COTTON & GODFREY 193.

†*Murchisonia sinistrorsa* sp. n. Carboniferous U.S.A., KNIGHT J. Paleont. Sharon Mass. 3 4 1934 p. 440 pl. 56 f. 5.

†*Orestes reticulatus* p. 255 f. 17-19; *quadrilineatus* p. 257 f. 20-22, spp. n. Carboniferous Colorado, GIRTY J. Wash. Acad. Sci. 24 6 1934.

Oxynodiscus sigmoidalis sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 361 pl. v f. 8-9.

†*Pleurotomaria worthenioides* p. 251 f. 8, 9, Arkansas; *P. rocky montana* p. 254 f. 13-16, Colorado; *P. aspera* p. 259 f. 23-25 Colorado; *P. woolseyana* p. 260 f. 26-27 Arkansas; *P. millegranosa* p. 263 f. 28, 29 Arkansas, spp. n. Carboniferous, GIRTY J. Wash. Acad. Sci. 24 6 1934.—*P. pseudostrigillata* nom. nov. for *P. strigillata* Girty, non Herrick, GIRTY J. Wash. Acad. Sci. 24 12 1934 p. 541.—*P. wilmanae* p. 227, pl. v; *P. patersonae* p. 230 pl. vi, spp. n. Cretaceous S. Africa, RENNIE S. Afr. J. Sci. Johannesburg 31 1934.—*P. angulba*, KÜHN 513.

Puncturella corolla Verco, *fumarium* Hed. figs., COTTON & GODFREY 193.

†*Raphistoma kobayashii* sp. n. p. 56 pl. viii f. 3, 4 Permian Caracorum, GORTANI & MERLA Sped. Ital. Filip. Himalaia, Bologna 5 1934.—*R. coreanicum* 371 pl. viii f. 1-3, 10-11; *keizanense* 372 pl. vii f. 1-7, 14; *katoii* 373 pl. viii f. 4-16 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Rimulopsis etalloni tenuinodosa* p. 306, *lorioli* p. 312; *thurmanni* p. 317, nov. spp. Jurassic Europe, HABER 1932, "vide Appendix" [This has not been published yet], HABER.

Scutus Australian shells figs., ALLAN 22.—*S. anatinus* Don. fig., COTTON & GODFREY 193.

†*Sinuitopsis kochiriensis* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 360 pl. v f. 1-4.

Sophismalepas nigrita Sow. fig., COTTON & GODFREY 193.

†*Stuorella convexa* sp. n. Trias Europe, KUTASSY Mag. K. földt. Int. Esk. Pest. 64 4-6 1934 p. 70 pl. ii f. 15-17.—*S. salisburyensis* sp. n. Trias Saltzburg, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 35 f. 2 pl. 1 f. 12-13.

†*Tugali superba* sp. n. Upper Pliocene Cape Runaway New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 265 pl. 58 f. 10, 11.—*T. cicatricosus* A. Ad. fig., COTTON & GODFREY 193.

†*Worthenia densesculpta* p. 36 f. 3 pl. i f. 14, 15; *nodulosa* p. 38 pl. i f. 16, spp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934.—*W. ornata* figs., [Worthemia p. 235], KUTASSY 530.

Zeidora tasmanica A. Ad. fig., COTTON & GODFREY 193.

TROCHIDAE, STOMATELLIDAE, TURBINIDAE, DELPHINULIDAE, CYCLOSTREMATIDAE, COCCULINIDAE.

Arene curacoana sp. n. Curaçao, PILSBRY Proc. Acad. Nat. Sci. Philad. 85 1934 p. 381 pl. 13 f. 8.

†*Ataphurus* [=Ataphrus] *yokoyamai* p. 234 pl. xxxv (xiii) f. 2-3; *kitakamiensis* p. 235 pl. xxxix (xvii) f. 7-10 spp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934.

Austrocochlea torri sp. n. South Australia, COTTON & GODFREY S. Aust. Nat. Adelaide 16 1 1934 p. 1 pl. i f. 1.—*Austrocochlea zebra* Menke not *Trochus zebra* Wood = *Labio porcatus* Ad.; *A. concamerata* Wood = *Trochus fuliginus* Ad. = *T. viridis* Wd.; *A. rudis* Gray = *Monodonta*

melanoloma Menke = *Trochocochlea chloropoda* Tate; *A. adelaidae* Phil. = *Gibbula depressa* T-W. = *Diloma australia* T-W.; *A. odontis* Wd. = *Gibbula tessera* T-W. figs., COTTON & GODFREY 196.

Calliostoma bonita pl. 5 f. 5, 6; *rema* pl. 5 f. 3, 4 spp. n. Acapulca Mexico, STRONG, HANNA & HERTLEIN Proc. Calif. Acad. Sci. (4) 21 10 1933 p. 121.

†*Calliostoma balconibensis* sp. n. Tertiary Mornington Victoria, CHAPPLE Mem. Nat. Mus. Melbourne 8 1934 p. 165 pl. xix f. 6, 6a.—*C. (Astele) kikaianum* sp. n. Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 158 (50) pl. v (i) f. 38 a-b, 39 a-b.—*C. mea* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 140 pl. 15 f. 6, 7.

Cantharidella smaltata Fischer, fig., COTTON & GODFREY; *C. beachportensis* sp. n. off Beachport S. Australia, COTTON & GODFREY S. Aust. Nat. Adelaide 15 4 1934 p. 121 pl. 1 f. 12.

Cantharidus pulcherrimus, *lehmanni*, *eximius*, *leucostigmus*, *apicinus*, *bellulus*, *conicus*, *neglectus*, figs., COTTON & GODFREY 195.

Chlorostoma nigerrima fig., KING & PING 485.

Clanculus consobrinus Tate, *dunkeri* Koch, *denticulatus* Gray, *personatus* Phil. figs., COTTON & GODFREY 194.

†*Discotrochus burgasensis* Tertiary Burgas Bulgaria, GOČEV Ann. Univ. Sofia 25 3 1929 pp. 81, 101 pl. iii f. 2, 26.

†*Eccyliopterus shirakii* p. 369 pl. vii f. 4-6, 9-11, *minutus* 370 pl. iv, f. 5-6 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

Euclanculus subgen. n. of *Clanculus* type *C[lanculus] leucomphalus* Verco, COTTON & GODFREY S. Aust. Nat. 15 3 1934 p. 78.

Euomphalidae U.S.A., J. B. KNIGHT 495.

†*Euomphalus nora* p. 158 pl. xi f. 13, *kweitingensis* p. 161 pl. xi f. 15 spp. n. Permian China, GRABAU Palaeont. sinica 8 3 1934.

Euriclanculus subgen. n. of *Clanculus*, type *C[lanculus] flagellatus* Phil., COTTON & GODFREY S. Aust. Nat. 15 3 1934 p. 78 pl. 1 f. 3.

†*Fossariopsis insignis* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 16 pl. ii f. 4-7.—*F. palfri* figs., KUTASSY 530.

Gibbula cineraria locomotion and muscular movement, GERSCH 331.

Isoclanculus subgen. n. of *Clanculus* type *C[lanculus] gatesi* Crosse, COTTON & GODFREY S. Aust. Nat. 15 3 1934 p. 78 pl. i f. 5.

Leiopyrga octona fig., COTTON & GODFREY 195.

Liotina West American spp. figs., including *L. acuticostata supranodosa* subsp. n. p. 438 pl. xxx f. 4-6; *L. socorroensis* sp. n. p. 439 pl. xxxi f. 4-6; *L. eucasensis* sp. n. p. 441 pl. xxix f. 10-12.—*L. cancellata*, *c-b-adamsii*, *fenestrata*, *scitula*, *rammata*, *striulata*, *acuticostata*, *a. stearnsi*, *a. bristolae*, *a. supranodosa* subsp. n. p. 438 pl. xxx f. 4-6; *carinata*, *olivacea*, *o. litharia*, *lucasensis* sp. n. p. 441 pl. xxix f. 10-12; *californica*, *pacis socorroensis* sp. n. p. 439 pl. xxxi f. 4-6; West Coast America, STRONG Trans. San Diego Soc. Nat. Hist. 7 37 1934.

Liotina hermanni Dkr. "new sp." figs.; *L. fijiensis* sp. n. Fiji pp. 377, 378 f. 1a-c, pl. xiii f. 1a-b, PILSBRY Proc. Acad. Nat. Sci. Philad. 85 1934.

†*Liotina pseudodiscoidea* sp. n. Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 157 (49) pl. v (i) f. 40a, b, c.

Macroclanculus subgen. n. of *Clanculus* type *Clanculus undatus* Lk., COTTON & GODFREY S. Aust. Nat. 15 3 1934 p. 78 pl. i f. 2.

†*Mesotrochus triadicus elegantula* var. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 p. 236 pl. ii f. 26.

Microclanculus subgen. n. of *Clanculus* type *C[lanculus] euehelioides* Tate, COTTON & GODFREY S. Aust. Nat. 15 3 1934 p. 78 pl. i f. 1.

†*Monilea (Monilea) mateana* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 202 pl. xxxv f. 1-2.

†*Nododelphinula (elegans* p. 188)
elegans sp. n. Cretaceous Japan, NAGAO
J. Fac. Sci. Univ. Hokkaido Geol. and
Min. 2 3 1934 p. 232 pl. xxxiii (xi)
f. 1, 2, 8.

†*Opella hendersoni* sp. n. Upper
Oligocene New Zealand, MARWICK
Proc. Malac. Soc. London 21 1 1934
p. 11 pl. i f. 3.

†*Ophileta alta* p. 533 pl. ii f. 4-6;
plana p. 534 pl. iii f. 7-10, spp. n.
Lower Ordovician Korea, KOBAYASHI
J. Fac. Sci. Univ. Tokyo Geol. Min.
Geog. Seis. 3 9 1934.

Phaisianella [= *Phasianella*] *inter-*
media figs., KING & PING 485.

†*Solariella kincaidi* sp. n. Upper
Oligocene U.S.A., TEGLAND Univ.
Calif. Pub. Geol. 23 3 1933 p. 141
pl. xv f. 8.

†*Straparollus (Straparollus) savagei*
p. 149 pl. xxi f. 1a-e; *S. (Euomphalus)*
plummeri p. 152 pl. xxii f. 3a-h;
pl. xxvi f. 7; *S. (E.) muricatus* pp.
152, 160 pl. xxi f. 3a-f; *S. (E.)*
serratus pp. 150, 154 pl. xx f. 4a-c;
S. (E.) subsulcatus pp. 154, 161 pl. xxii
f. 1a-f; *S. (E.) hollingsworthi* pp. 152,
155 pl. xxi f. 4a-j; *S. (E.) reedsi*
p. 159 pl. xxiv and pl. xxvi f. 5a-c,
spp. n. Carboniferous U.S.A., J. B.
KNIGHT J. Paleont. Sharon Mass. 8
2 1934.

†*Tectus crassus* sp. n. Cretaceous
Japan, NAGAO J. Fac. Sci. Univ.
Hokkaido Geol. & Min. 2 3 1934,
p. 236 pl. xxxix (xvii) f. 9.

Thoristella chathamensis cookiana
subsp. n. Island Bay Wellington N.Z.,
POWELL Trans. Proc. Roy. Soc. N.Z.
64 2 1934 p. 154 pl. xxii f. 10, 11.

Trochidae, South Australian, COTTON
& GODFREY 193, 194.

Trochus stefaninii sp. n. Indian
Ocean, NARDINI Palaeontogr. ital.
Siena 34 (1933) 1934 p. 247 pl. xviii [v]
f. 15.—*T. (chlorostoma) argyrostoma*
figs., KING & PING 485.—*T. niloticus*
and parasite *Panaietis incamerata*,
MONOD 639.—*T. niloticus*, PRASHAD
& RAO 759.—*T. montagu* in Guernsey,
TOMLIN 965.

†*Trochus besairiei* sp. n. Cenomanian
Madagascar, COLLIGNON Ann. Geol.
Serv. Mines Madagascar 3 1933 p. 55
pl. vi f. 8, 9.—*T. besairiei* sp. n. Cre-

taceous Madagascar, COLLIGNON Ann.
Géol. Serv. Mines Madagascar 3 1933
p. 55 pl. vi f. 8, 8a, 9, 9a.—*T. "spp."*
Miocene Colombia figs., TOLMACHOFF
954.

Turbo coronata granulata figs., KING
& PING 485.

†*Turbo (Turbo) petholatus thanus*
subsp. n. Quaternary Fiji, LADD
Bull. Bishop Mus. Honolulu 119 1934
p. 203 pl. 35 f. 3.—*Turbo "spp."*
Miocene Colombia figs., TOLMACHOFF
954.

NERITOPSIDAE, NERITIDAE.

†*Desmiera japonica* sp. n. Cretaceous
Japan, NAGAO J. Fac. Sci. Univ.
Hokkaido Geol. & Min. 2 3 1934
p. 237 pl. xxxvi (xiv) f. 19, ? 20,
21-23.—*D. peruviana* sp. n. Cretaceous
Peru, OLSSON Bull. Amer. Paleont.
Ithaca 20 69 1934 p. 58 pl. iv f. 8.

†*Eucyclus julianensis* figs., j. var.
gracilis fig., KÜHN 513.

†*Haticopsis wortheniana* nom. nov.
for *H. wortheni* Knight, KNIGHT J.
Paleont. Sharon Mass. 8 4 1934,
Abstract p. 433.

†*Hologyra anisica* (Neritopsidae) Trias
Saltzburg, SCHNETZER Palaeonto-
graphica Stuttgart 61 1-3 1934 p. 41
pl. i f. 18, 19.

†*Hungariella* gen. nov. p. 238, type
Neritopsis pappi Kut., p. 240 pl. i
f. 7-9; *stredae* sp. n. p. 241 pl. i
f. 10-14, Trias Europe, KUTASSY Mat.
Term. Ért. Budapest 49 1933.

†*Machurea*, ODER 680.

†*Maclurites*, ODER 680.

†*Naticopsis marthae* pp. 372, 381
pl. xli f. 1a-k; *meeki* p. 373 pl. xlii
f. 1a-l, 2b; *wortheni* p. 377 pl. xliii
f. 3a-k; *virgata* p. 380 pl. xlii f. 6a-g;
juditha p. 382 pl. xlii f. 7a-d, spp. n.
Carboniferous U.S.A., J. B. KNIGHT
J. Paleont. Sharon Mass. 7 4 1933.

†*Naticopsis wortheniana* nom. nov.
for *Naticopsis wortheni* Knight, non
Weller 1916, KNIGHT J. Paleont.
Sharon Mass. 8 4 1934 p. 447.

Nerita mitchelli sp. n. Philippines,
OLDROYD Philipp. J. Sci. Manila 52
2 1933 p. 205 pl. i f. 5-7.—*N. albicilla*
figs., KING & PING 485.

†*Neritaria turriculata* sp. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 p. 244 pl. i f. 18.

Neritidae nervous system, KRULL 508.

Neritina arctilineata, mertoniana figs., KING & PING 485.

†*Platychilina wöhrmanni major* p. 223, *maior* p. 243 var. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 pl. ii f. 22.

†*Seisia* gen. n. p. 75 type *Platychilina wöhrmanni* Koken, *S. blaschkei* sp. n. Trias Europe, KUTASSY Mag. K. földt. Int. Évk. Pest. 64 4-6 1934 p. 77 pl. iii f. 1-7.

Septaria dravadica sp. n. S. India, PRASHAD Rec. Ind. Mus. 36 1934 p. 6 pl. ii f. 1-4.—*S. suborbicularis* rad. fig., RENSCH 791.—*S. dravidica, borbonica* style sac, SESHAIYA 865.

Theodoxus (Neritaea) jordani Sow., *unicarinatus* p. 109 pl. vii f. 1-4, *bicarinatus* p. 111 pl. vii f. 5-8, var. n. Jordan Palestine, PICARD Archiv. f. Moll. 66 3 1934.—*T. fluvialis*, RAFFY 771.—*T. bourguignati*, ROGER 803.—*T. bourguignati*, ROGER 804.—*T. danubialis, transversalis*, Soós 884.—*T. (Clithon) retropictus*, UENO 984.

†*Trachydoma sayrei* pp. 384, 385 pl. xlv f. 4a-d; *newelli* pp. 384, 385 pl. xlv f. 3a-j; *whitei* p. 386 pl. xlvi f. 2a-d; *oweni* p. 387 pl. xlvi f. 4a-b; *ortoni* p. 388 pl. xlvi f. 5; *moorei* pp. 388, 390 pl. xlvi f. 1a-f, spp. n. Carboniferous U.S.A., J. B. KNIGHT J. Paleont. Sharon Mass. 7 4 1933.

†*Trachynerita quadrata* Stopp v. *canaliculata* Ahlb. figs., KUTASSY 530.

HELICINIDAE.

†*Amaurellina malinchae* f. 5, *A. cortezi* f. 7, 9 spp. n. Chiapas Mexico, Eocene, GARDNER & BOWLES J. Wash. Acad. Sci. 24 6 1934 p. 244.

†*Cernina (Eocernina) chiapasensis* sp. n. Chiapas Mexico, Eocene, GARDNER & BOWLES J. Wash. Acad. Sci. 24 6 1934 p. 243 f. 2, 3.

†*Eocernina* sect. n. of *Cernina* (*Ampullinae*) [*Eutrochatella* Helicinidae] type *Natica hannibali* Dickerson Middle Eocene Oregon, GARDNER & BOWLES J. Wash. Acad. Sci. 24 6 1934 p. 243.

Eutrochatella pulchella cavearum p. 10; *p. cathartensis, nobilis retreutensis* p. 11, subspp. n. Jamaica, B. BAKER Nautilus Philad. 48 1 1934.

Lucidella (Poenia) adamsiana sublaevis subsp. n. Jamaica, B. BAKER Nautilus Philad. 48 1 1934 p. 9.

Orobophana Wag. type *H. uberta* Gld., PILSBRY & COOKE 743.

Pleuropoma Mildff. = *Sturyana* [sic] Wagner 1905, *Aphanoconia* Wagner 1905, PILSBRY & COOKE 743.

Stoastomops adamsi sp. n. Jamaica, B. BAKER Nautilus Philad. 48 1 1934 p. 10.

Sturanya = *Sturyana* [sic] p. 54 = *Sturyanella* [sic] nom. n. = *Sturanyella* [q.v.] emend., PILSBRY & COOKE Nautilus 48 2 1934.

Sturanyella (= *Sturyanella* supra) Helicinidae nom. nov. ("includes *Sturanya* Wagner exclusive of its type-species") type *Helicina plicatilis* Mouson, PILSBRY & COOKE Nautilus 48 2 1934 p. 54.

Tacheopsis nicaeensis, Soós 885.

PECTINIBRANCHIA.

TAENIOGLOSSA.

LITTORINIDAE, RISSOIDAE, HYDROBIDAE, VIVIPARIDAE, VALVATIDAE, FILIDAE, CYCLOPHORIDAE, FOSSARIDAE.

Alvania of Plymouth, LEBOUR 555.

Alycaeus (Chamalycæus) troglodytes sp. n. Sumatra, RENSCH Arch. Hydrobiol. Stuttgart Sup. 12 4 1934 p. 743 fig. 3.

Amnicola winkleyi mozleyi, MOZLEY 652.—*A. taylori* in Scotland, WATERTON 1024.

†*Amnicola hannaï* sp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 16.

Amphithalamus [*Amphitalamus* in text] (*Pisinna*) *kohl-larseni* sp. n. Campbell Id. Pacific, DAVID Senckenbergiana Frankfurt 16 2-3 1934 pp. 129, 133 f. 4.

Ampullaria canaliculata embryology SCOTT 858.

Annularia spurca nom. nov. for *Cyclostoma sordidum* Gundl. 1856 non Pfr. 1855, AGUAYO Mem. Soc. cubana Hist. nat. 8 2 1934 p. 89.—*A.* (= *Choanopoma* Pfr. 1848) classification (type *A. fimbriata*), AGUAYO 15.

Arinia cathaicola pl. vi f. 2, *A. c. dissimilis* pl. vi f. 3, sp. et var. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934 p. 26.

Barleeia, Plymouth, LEBOUR 555.

Bithynia leachii in Scotland, WATERS-TON 1024.

†*Brannerillus involutus* sp. n. i. praeposterus subsp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 16.

†*Bythinella crijići* sp. n. Miocene Servia, PAVLOVICA Ghas. srpsk. Kralj. Akad. Belgrade 78 1933 p. 83 pl. i f. 11.

Bythinia tentaculata, RAFFY 771.

Bytinia [*Bithynia*] *cornuta*, SCATIZZI 830.

†*Calipyrgula* gen. n. (Hydrobiidae) type *C. carinifer* sp. n.; *C. ellipostoma* sp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 15.

Campeloma rufum fig., DOLLEY 231.—*C. rufusa*, H. P. WRIGHT 1052.

Choanopoma triplopoma sp. n. p. 60 pl. ii f. 6, 12, 13; *C. (Tudorops) redfieldianum magnitesta* subsp. n. p. 60 pl. ii f. 8, 9, 14, 15; *C. (Colobostylus) negrilense* sp. n. p. 61 pl. ii f. 7, 16, 17, Jamaica, H. B. BAKER Nautilus 48 2 1934.—*C. (Annularodes) uncinatum indivisum* var. n. Cuba, WELCH Nautilus Philad. 47 4 1934 p. 133 pl. ii f. 8.

Chondropoma laetum asperulum subsp. n. p. 89 f. 2, *C. edouardi* sp. n. p. 90 f. 1, Cuba, AGUAYO Mem. Soc. cubana Hist. nat. 8 2 1934.—*C. (Parachondrella) sericinum retreatense* subsp. n. Jamaica, H. B. BAKER Nautilus 48 2 1934 p. 61 pl. ii f. 18.—*C. (Chondropomorus) textum booneae* subsp. n. Cuba, WELCH Nautilus Philad. 47 3 1934 p. 107 pl. ii f. 4.

Cingula eyerdami fig. 9, *forresterensis* fig. 8, spp. n. Alaska, WILLETT Nautilus Philad. 47 3 1934 p. 103 pl. viii.—*Cingula* of Plymouth, LEBOUR 555.

Cleopatra cyclostomoides, bulimoides b. unilirata, b. nsendweensis, GERMAIN 323.

Cleopatridae fam. nov., GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 1 1934 p. 63.

Cochlostoma perseianum figs., TOVIM 968.

†*Coelostylina solida* Koken & Woehrmann = *Glassophora triadica* Dien. figs., KUTASSY 530.

Cyclohelix kibleri figs., JUTTING 464.

Cyclostoma elegans, MAZER-FIALLA 612.

Cyclotopsis subdiscoidea style sac in, SESHAIYA 865.

Cyclotus discriminendus sp. n. Sumatra, B. RENSCH Archiv f. Moll. 66 6 1934 p. 319 pl. xiv f. 1a-b.—*C. (Procyclus) biggsi* sp. n. Kerman Persia, SCHLESCH Archiv f. Moll. 66 1 p. 45 pl. v f. 1-2 (a-c).

Diplommatina szechuanensis sp. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934 p. 25 pl. vi f. 1a.

†*Fluminicola malheurensis* sp. n. Pliocene Oregon, HENDERSON & RODECK J. Paleont. Sharon Mass. 8 3 1934 p. 266 pl. xxxvii f. 8a-b.—*F. kettlemanensis, pilula* spp. n. p. 15; *siegfusi, spiralis, perditicollis, percarinata* spp. n. p. 16 Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934.

†*Fossarulus mariae* sp. n. Miocene Servia, PAVLOVICA Ghas. srpsk. Kralj. Akad. Belgrade 78 1933 p. 82 pl. i f. 16.

†*Haydenia stantoni* sp. n. Cretaceous Colorado, HENDERSON J. Paleont. Sharon Mass. 8 3 1934 p. 262 pl. xxxvi f. 10a-c.

Hydrobia jenkinsi, BOETTGER 109.—*Hydrobia*, VÄLIKANGOS 990.

†*Hydrobia šantrići* sp. n. Miocene Servia, PAVLOVICA Ghas. srpsk. Kralj. Akad. Belgrade 78 1933 p. 81 pl. i f. 8.—*Hydrobia* sp. Miocene Colombia fig., TOLMACHOFF 954.

Hydrobiidae Philippines, RENSCH 788.

Lanistes conigicus mayumbae var. n. Bomba Belgian Congo, DARTEVELLE Rev. zool. bot. afr. Tervueren 25 1934 p. 413.

†*Lartetia algoviensis* sp. n. Cretaceous Europe, UHL Archiv f. Moll. 66 1 1934 p. 51 fig.

Littorina [= *Littorina*], KLÄHN 488.

†*Littoridina woodringi* sp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 16.

Littorina aestuarii Jeff. at Woodbridge, DOUGHTY 234.—*L. littorea*, FREYBERG 295.—*L. neritoides*, FISCHER-PIETTE 274.—*L. saxatilis* date of breeding, FISCHER-PIETTE 275.—*L. littorea, obtusata*, LINKE 570.—*L. rudis, littorea, obtusata*, reproductive organs, figs., LINKE 571.—*L. littorea* breeding habits, LINKE 572.—*L. littorea*, LÖNNBERG 574.

†*Littorina madagascariensis* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931 p. 40 pl. vi f. 5-7.

Lyogyrrus vanhyningi sp. n. Florida, VANATTA Nautilus Philad. 47 4 1934 p. 149 pl. xiii f. 9.

Opisthosiphon (Opisthosiphon) andrewsi p. 130 pl. xi f. 5; *O. (O.) torrei* p. 131 pl. xi f. 6; *O. (O.) cunaguæ* p. 132 pl. xi f. 7, spp. n. Cuba, WELCH Nautilus Philad. 47 4 1934.

Opisthosiphon sainzi sp. n. Cuba, AGUAYO Mem. Soc. cubana Hist. nat. 8 2 1934 p. 91 f. 3-4.

Paludina humerosa Anthony = *Lithasia verrucosa* Raf., CLENCH 160.—*P. vivipara*, PATRASCANU 711.—*P. (Vivipara) atra* fig., PIERSANTI 730.—*Paludina*, RYDING 826.—*P. vivipara*, SCATIZZI 830.

†*Paludina*, WERVEKE 1034.

Paludomus tanschaurica monograph on anatomy, SESHAIYA 866.

Pleurocera acutum adaptive colouration figs., KINDLE 483.

Pomatias elegans, BOETTGER 110.—SCHLESCH 843.

†*Prososthenia čubrilovići* sp. n. Miocene Servia, PAVLOVICA Ghl. srpsk. Kralj. Akad. Belgrade 78 1933 p. 81 pl. i f. 15.

Pupina romokaakeri sp. n. Sumatra, B. RENSCH Arch. f. Moll. 66 6 1934 p. 320 pl. xiv f. 4.

†*Pyrgulopsis vinctus, polynematicus* spp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 15.

Rissoa sabaudiae Coen "n. sp." [nom. nud.], BRUNELLI & CANNICCI 131.—*Rissoa* of Plymouth, LEBOUR 555.

†*Scalaria blakei*, "Rissoidae" [sic] sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 269 pl. xiv f. 191.

Spirostoma heudeanum sp. n. China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 25 pl. vi f. 9-9c.

Valvata antiquilina sp. n. Siberia, MOZLEY Smithsonian Misc. Coll. 92 2 1934 p. 1 pl. i f. 4.—*V. (Valvata) simplex öcsensis* f. n. Öcs, Soós Állat Közlem. Budapest 31 3-4 1934 pp. 189, 204 fig. 1.—*V. tricarinata* variation, FURROW 305.—*V. cristata* abnormalities figs., PIERSANTI 727.—*V. piscinalis*, SCATIZZI 830.

†*Valvata densestriata* sp. n. Pliocene Calif., PILSBRY Nautilus Philad. 48 1 1934 p. 16.

Vivipara fasciata, RAFFY 771.

Viviparidae of Western Siberia, JOHANSEN 457.

Viviparus (Bellamy) monardi p. 237 figs. 1-6; *V. (B.) contractus* p. 239 f. 7-8, spp. n. Belgian Congo, F. HAAS Zool. Anz. Leipzig 106 1934.—*V. unicolor pitmini* subsp. n. Zambesi-Gebiet Mumbwa district, C. Africa, HAAS Zool. Anz. Leipzig 108 1934 p. 205 f. 6.—*V. viviparus* microscopy technique spermatogenesis figs., FRANZ 293.—*V. chinensis malleatus* (Reeve), OKADA 683.—*V. contectoides*, VAN CLEAVE 992.—*V. contectoides*, H. P. WRIGHT 1052.

†*Viviparus kosanusan* sp. n. Oligocene Hizen, Japan, UEJI Venus 4 6 1934 pp. 342, 347 pl. v f. 4, 5.

TRUNCATELLIDAE, ACICULIDAE, ASSIMINEIDAE.

Acme lineata habitats, BOYCOTT 124.

Assimineae (Eussoia) somala sp. n. Italian Somaliland, BISACCHI Ann. Mus. Stor. nat. Genova 56 1933 p. 263 f. 1-4.—*A. bedaliensis* sp. n. Java, RENSCH Arch. Hydrobiol. Stuttgart Suppl. 13 2 1934 p. 226 pl. viii f. 20.—*A. sinensis* figs., JUTTING 464.—*Assimineae v. Syncera* (S. is nom. nud.), WINCKWORTH 1041.

Blanfordia and parasitism, PILSBRY 732.—*B. quadrasi*, RENSCH 788.

Paludinella halophila sp. n. Java, RENSCH Arch. Hydrobiol. Stuttgart Suppl. 13 2 1934 p. 228 pl. viii f. 23.

Skeneopsis planorbis, GERSCH 331.

Truncatella truncatula figs., VAYS-
SIÈRE 996.

**CERITHIIDAE, PLANAXIDAE,
THIARIDAE, PLEUROCERIDAE,
PSEUDOMELANIIDAE, NERI-
NEIDAE.**

Acrostoma style sac in, SESHAIYA
865.

Amphimelania holandri, Soós 884.

Anculosa variation and erosion figs.,
BAILY, PEARL & WINSOR 55.—*A.*
umbilicata, *subglobosa praerosa* figs.,
GOODRICH 341.

Balanocochlis inermis rad. fig.,
RENSCH 791.

†*Bathraspira excavata* sp. n. Cretace-
ous Japan, NAGAO J. Fac. Sci. Univ.
Hokkaido Geol. & Min. 2 3 1934 p. 258
pl. xxxiv (xii) f. 5, 8.

Batillaria multiformis Lischke habits,
ABE 1.

Bittium parvulum sp. n. Indian Ocean,
NARDINI Palaeontogr. ital. Siena 34
(1933) 1934 p. 231 pl. xvii [iv] f. 3.

†*Cerithiopsis woolnoughi* sp. n. Ter-
tiary Gippsland, Victoria, CHAPMAN &
CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46
1 1934 p. 69 pl. v f. 7, 8.

Cerithium (Circocerithium) reticulatum
p. 253 pl. xxxix (xvii) f. 11, *miyakoense*
p. 254 pl. xxxvi (xiv) f. 1-10, *C.*
(Metacerithium) rikuchiuense p. 256
pl. xxxv (xiii) f. 4-7 spp. n. Cretaceous
Japan, NAGAO J. Fac. Sci. Univ. Hok-
kaido Geol. & Min. 2 3 1934.—*C.*
minimum, PEARSE 714.

†*Cerithium corroyi* p. 41 pl. vi f. 8;
falloti p. 42 pl. vi f. 9; *mahagagensis*
p. 42 pl. vi f. 10 spp. n. Cretaceous
Madagascar, COLLIGNON Ann. Géol.
Serv. Mines Madagascar 1 1931.—*C.*
guillanti sp. n. Cretaceous Madagascar,
COLLIGNON Ann. Géol. Serv. Mines
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C. flemischi sp. n. Tertiary Ktolemando
E. Indies, MARTIN Leidsche Geol.
Mededeel. Leiden 6 1 1933 pp. 10, 29
pl. iv f. 30, 31.—*C. zeravschanensis*
"n. sp." [nom. nud.], VIALOV 1002.

†*Clava (Ochetoclava) aglaiae* sp. n.
Cretaceous S.E. of Macau, N.E. Brazil,
MAURY Bull. Amer. Mus. N.H. 67 4
1934 p. 151 pl. xiv f. 5.

Goniobasis variation and erosion figs.,
BAILY, PEARL & WINSOR 55.—*G.*
comalensis, CHEATUM & MOUZON 152.—
G. livescens, GOODRICH 341.—*G. laqueata*
(Say) anatomy of reproductive system
figs., T. M. WOODWARD 1047.—*G.*
livescens, H. P. WRIGHT 1052.

†*Goniobasis weldensis* sp. n. Cre-
taceous Colorado, HENDERSON J.
Paleont. Sharon Mass. 8 3 1934 p. 262
pl. xxxvi f. 3a-d.—*G. kettlemanensis*
woodringi subsp. n., *G. arnoldiana* sp. n.
Pliocene Calif., PILSBRY Nautilus
Philad. 48 1 1934 p. 15.

Lithasia obovata, *geniculata*, *salebrosa*,
figs., GOODRICH 341.

Melania (Melanoides) tuberculata,
GERMAIN 323.—*M. tuberculata* figs.
shell variation; *M. rudis* rad. fig.,
M. (Sermyla) riquetii fig., RENSCH
791.

†*Melania catandubica* sp. n. Cre-
taceous nr. Lages N.E. Brazil, MAURY
Bull. Amer. Mus. N.H. 67 (4) 1934
p. 144 pl. xiv f. 6.

Melanopsis doriae nigra var. n.
Qanat Ginehkan S. Persia, BIGGS
J. Conch. London 20 2 1934 p. 60.—
M. oediensis p. 119 pl. vii f. 30-44;
M. turiformis p. 123 pl. viii f. 15-27,
spp. n.; *M. o. coroniformis* var. n. p. 121
pl. vii f. 45-52 Jordan Palestine,
PICARD Archiv. f. Molluskenk. 66
3 1934.—*M. cossoni*, GERMAIN 323.

†*Mesostoma ? shalemi* sp. n. Cre-
taceous Syria, BLANCKENHORN Paleon-
tographica Stuttgart 81A 4-6 1934 p.
270 pl. xiv f. 192a-b.

†*Nerinea petkoviči* sp. n. Cretaceous
Bulgaria, BONČEV Z. Bulgar. geol.
Ges. Sofia 5 3 1933 p. 242 pl. v f. 3a-c.—
N. (Plesioptygmatis) coutinhoi p. 146
pl. xiii f. 4, 5; *N. (Ptygmatis)*
baixadoleitensis p. 147 pl. xiii f. 1;
N. (Ptygmatis) riograndensis p. 148
pl. xiii f. 2, spp. n. Cretaceous N.E.
Brazil, MAURY Bull. Amer. Mus.
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Cretaceous Japan, NAGAO J. Fac.
Sci. Univ. Hokkaido Geol. and Min.
2 3 1934 p. 250 pl. xxxviii (xvi) f. 1, 2.
—*N. (Teleptyxis) peruviana* sp. n.
Cretaceous Peru, OLSSON Bull. Amer.
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pl. x f. 1-3.

†*Notosinister tepikiensis* sp. n. Pliocene Cape Runaway N.Z., POWELL Rec. Auck. Inst. Mus. 1 5 1934 p. 265 pl. lvii f. 4.

†*Orthonema inornatum* pp. 444, 446 pl. lvii f. 1a-d; *werneri* pp. 440, 441 pl. lvi f. 7a-c; *schucherti* pp. 440, 441 pl. lvi f. 6a-b; *sayrei* p. 440 pl. lvi f. 3; *marvinwelleri* pp. 444, 445 pl. lvii f. 3a-c spp. n. Carboniferous U.S.A., KNIGHT J. Paleont. Sharon Mass. 8 4 1934.

†*Paraglauconia pananga* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 62 pl. x f. 7.

Pleurocera acuta, DOLLEY 231.—*P. canaliculatum* group fig., GOODRICH 342.—*P. canaliculatum undulatum*, MAGRUDER 595.—*P. acuta*, H. P. WRIGHT 1052.

†*Potamides ? romanovskiy* "n. sp." [nom. nud.], VIALOV 1002.

†*Psammodulus mexicanus* Middle Miocene, Mexico, COLLINS Nautilus Philad. 47 4 1934 p. 128 pl. xiii f. 4.

†*Pseudomelania hendricksoni* sp. n. Cretaceous Montana, HENDERSON J. Paleont. Sharon Mass. 8 3 1934 p. 262 pl. xxxvi f. 1a-c.—*P. elegantula* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. and Min. 2 3 1934 p. 328 pl. xxxvii (xv).

†*Pyrasus scalariformis* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. and Min. 2 3 1934 p. 257 pl. xxxv (xiii) f. 10, pl. xxxvii (xiv) f. 24.

Semisulcospira libertina, application of formula $a = kb^2$ to growth relation in embryonic shells, figs. and tables, OUE 698.

Stomatodon style sac in, SESHAIYA 865.

†*Teleptyxis* sect. n. of *Nerinea*, type *N. peruviana* sp. n. Cretaceous, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 63.

Thiara carolitaciturni sp. n. Nias Id., Sumatra, JUTTING Miscel. Zool. Sumatrana 84-85 1934 p. 8 f. 8.

†*Trajanella japonica* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. and Min. 2 3 1934 p. 239 pl. xxxix (xvii) f. 1-2, 4-5.

†*Triphora solitaria* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934, 158 (50) pl. v (i) f. 33.

STROMBIDAE, APORRHAIIDAE STRUTHIOLARIIDAE, TRICHO- TROPIDIDAE, VERMETIDAE, TURRITELLIDAE, CAECIDAE, XENOPHORIDAE.

†*Alaria deutsch-bethlehemensis* sp. n. Cretaceous Syria, BLANCKENHORN Paleontographica Stuttgart 81A 4-6 1934 p. 272 pl. xiv f. 197.

†*Aporrhais baixaleitensis* sp. n. Jurassic S.E. of Macau N.E. Brazil, MAURY Bull. Amer. Mus. N.H. 67 (4) 1934 p. 151 pl. xvi f. 4.—*A. dutregei* fig., FURON 303.—*A. hirundo* fig., JAROS 454.

†*Calyptrophorus hopkinsi* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 68 pl. x f. 2.

†*Drepanochilus elongatodigitatus* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. and Min. 2 3 1934 p. 261 pl. xxxiii (xi) f. 5.

†*Meioceras bermudezi* nom. nov. for *M. constrictum* P. & A. Naut. 46 p. 122 not *Caecum constrictum* Gabb also a *Meioceras*, PILSBRY & AGUAYO Nautilus Philad. 47 3 1934 p. 112.

†*Mesalia peruviana* p. 60 pl. x f. 4; *inca* p. 61 pl. x f. 5 spp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934.

†*Pellicaria howchini* sp. n. Upper Pliocene Brooklyn Park S. Australia, COTTON S. Aust. Nat. Adelaide 16 1 1934 p. 7 figs.

†*Pugnellus ? cypraeiformis* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 67 pl. ix f. 4, 6.

†*Rimella trichinopolitenensis* Speng. *spengleri* mut. nov. p. 44 pl. vi f. 16, 17; *R. crassituberculata* sp. n. p. 44 pl. vi f. 19-21, Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931.—*R. subrimosa*, KUMAR & PICHAMUTHU 517.

†*Rostellaria jacobii* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 39 pl. vi f. 1, 1a.

†*Strombus incertus* fig., FURON 303.
—*S. mediterraneus*, MITZOPOULOS 635.

Turritella gunnii viviparous, ALLAN 23.—*T. cerea* figs., KING & PING 485.

†*Turritella difficilis* Orb., *besairiei* var. nov. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931 p. 31 pl. iv f. 10.—*T. (Haustator) madagascariensis* p. 31 pl. v f. 3-7; *lamberti* p. 33 pl. v f. 10, spp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934.—*T. euphrosynes* pl. xiv f. 1; *thaliae* pl. xiv f. 2, spp. n. Cretaceous near Macau, N.E. Brazil, MAURY Bull. Amer. Mus. N.H. 67 1934 (4) p. 143.—*T. yaegashii* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 249 pl. xxxvi (xiv) f. 11.—*T. kamschatica* Il. "(n. sp.)"; *T. belogolovia* "sp. n." [nom. nud.], SLODKEVIC 877.

Vermetus (Spirogyphus) andamanicus sp. n. Andamans, PRASHAD & RAO Rec. Ind. Mus. 35 1933 p. 410 pl. x f. 1-8.

Xenophora pallidula Rve., NUINO 672.

†*Zeacolpus pukeuriensis* sp. n. Lower Miocene New Zealand, MARWICK Proc. Malac. Soc. London 21 1 1934 p. 12 pl. i f. 4, 5.

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†*Capulus austriacus* sp. n. Trias Europe, KUTASSY Mag. K. f.öldt. Int. Ésk. Pest. 64 4-6 1934 p. 68 pl. ii f. 10-12.—*C. uncinatus* Hutton, POWELL 755.

Crepidula fornicata, KRÜGER 507.

†*Dicosmos schafferi* sp. n. Trias Europe, KUTASSY Mag. K. f.öldt. Int. Ésk. Pest. 64 4-6 1934 p. 75 pl. ii f. 11, 12.

Eunaticina heini recent, from Hood Id. Galapagos, HERTLEIN 412.

†*Eunaticina heini* sp. n. "E. K. Jordan" [Hertlein] Pleistocene Madalena Bay Lower California, HERTLEIN Bull. S. Calif. Acad. Sci. 33 2 1934 p. 68 pl. xxi f. 4.—*E. cincta* Hutton figs., POWELL 755.

Helicostylus gen. nov. [Capulidae] for *Strophostylus* Hall (pars) type *S. andrewsi* (J. Paleont. N.Y. 3 1859 p. 472) pp. 146, 148; *H. girtyi* (Newell MSS.) sp. n. p. 165 pl. xxv f. 2a-f, J. B. KNIGHT J. Paleont. Sharon Mass. 8 2 1934.

Hipponicidae, RUTSCH 825.

†*Hipponix (Rothpletzia) wiedenmayeri, rudista* figs., RUTSCH 823.

Lunatia alderi, catena, montagui distribution in N. Sea, STEPHEN 902.

Natica, for subgen. *Lunatia* Gray 1847 substitute *Euspira* Agassiz 1838, WINCKWORTH 1041.

†*Natica judaica* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 268.—*N. (Gyrodes) bassae* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931 p. 40 pl. vi f. 4, 4a.—*N. radians* sp. n. Tertiary Walsiu E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 10-30 pl. iv f. 32, 33, 33a.—*N. solitaria* sp. n. Trias Döpsang, MERLA Sped. Ital. Filip. Himalaia 1913-14 Bologna (2) 11 1934 p. 118 pl. vi f. 13.—*N. importuna* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 244 pl. xxxv (xiii) f. 8, 9, 15.—*N. (Stigmaulax) sulcata beaumonti* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54-55 1934 p. 50 pl. ii f. 6-8, pl. iii f. 5.—*N. (Natica) dalli* p. 138 pl. xiv f. 8-12, *N. (N.) weaveri* p. 138 pl. xiv f. 13-17, spp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933.—*N. (Ampullina) incompleta, parisiensis, sigaretina, vulcani, Kühn* 512.—*N. (Mammilla) lactea*, MITZOPOULOS 635.—*Natica* "spp." Miocene Colombia figs., TOLMACHOFF 954.

Platyceratidae, J. B. KNIGHT 495.

Polinices (Neverita) didyma, I. TAKI 935.

†*Polinices (Polinices?) schomburgki* sp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54-55 1934 p. 49 pl. ii f. 4, 5.—*P. (Euspira) blakeleyensis* f. 18, *rectus* f. 22, spp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 139 pl. xiv.

Thyca crystallina ♂, ADAM 5.—*T. crystallina* (Gould) [monograph] Dutch E. Indies, ADAM 9.

Tylostoma miyakoensis sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 247 pl. xxxiv (xii) f. 1-3, 6-7, pl. xxxix (xvii) f. 3.

†*Tylostoma globosum* figs., FURON 303.

†*Vanikoroa japonica* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 245 pl. xxxviii (xvi) f. 3-6.

†*Walua* subgen. n., of *Globularia* Sw., with type *Globularia edwardsi* sp. n. Suva formation Vitilevu Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 pp. 211, 212 pl. xxxvi f. 7, 8, pl. xxxvii f. 1, 2, pl. xxxviii f. 1.

CYMATIIDAE, CASSIDIDAE, TONNIDAE, CYPRAEIDAE, ARCHITECTONICIDAE.

†*Architectonica distinguenda* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tōkoku Univ. 16 2 1934 p. 161 (53) pl. v (i) f. 34a b, c.—*A. nobilis karsteni* var. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54-55 1934 p. 44 pl. i f. 8-10.

†*Bursa* (Marsupina) *albofasciata boussingaulti* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54-55 1934 p. 58 pl. iii f. 3, 4.

Cassididae English Eocene and Oligocene nomenclature and morphology figs., A. WRIGLEY 1056.

†*Cassidea* (*Semicassis*) *vandervlerki* pp. 10, 27 pl. iv f. 27, 27a; *bituminata* pp. 10, 28 pl. iv f. 28, spp. n. Tertiary Waisiu E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933.

Cassis pila, *undata* figs., KING & PING 485.

†“*Cassis*” *augustana* sp. n. London Clay, Highgate, WRIGLEY Proc. Malac. Soc. London 21 2 1934 p. 118 pl. xvi f. 21.

†*Columbellina brevisiphonata* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 260 pl. xxxix (xvii) f. 6.

Cypraea lurida, CHATELET 147.—*Cypraea* Mus. d'Elbeuf, COULON 198.—*C. mauritiana*, *arabica*, *pyrum*, anatomy figs., RAU 774.—*C. fultoni* Sow. figs., TOMLIN & SALISBURY 966.

†*Cypraea* (*Talparia*) *isabella lekalekana* subsp. n. p. 218 pl. xxxviii f. 9-12; *C. (Erosaria) agassizi* sp. n. p. 219 pl. xxxix f. 3-5, Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934.—*C. vinosa* Gmel. in Saxon grave, JACKSON 445.

Cypraeidae in Java, M. & F. A. SCHILDER 837.—Cypraeidae, Dutch East Indies, M. & F. A. SCHILDER 838

Dolium [= *Tonna*] *chinense* figs., KING & PING 485.

†*Dolium bituminatum* sp. n. Tertiary Waisiu, E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 10, 29 pl. iv f. 29, 29a.

Erosaria turdus monstrosity, COEN 169.—*E. caputserpentis* anatomy figs., RAU 774.

†*Galeodea apodemetes* sp. n. Lower Miocene New Zealand, MARWICK Proc. Malac. Soc. London 21 1 1934 p. 12 pl. ii f. 14.—*G. nodosa retusa* (Ed. MS.) R. B. Newton 1891 p. 105 Upper Bracklesham Beds [var. n.], WRIGLEY Proc. Malac. Soc. London 21 2 1934 p. 121; *G. gallica* nom. nov. for *Cassia carinata* Sow. non Berg. = *Cassidaria carinata* var. Desh. non Brug. = *Cassidaria diadema* Desh. non Risso, p. 123 pl. xvi f. 24, 25; *G. gallica clarendonensis* var. n. = *Cassia substriata* (Edw. MS.) R. B. Newton 1891 p. 106; *G. geminata* sp. n. p. 126 pl. xvi f. 28-30, Eocene England, WRIGLEY Proc. Malac. Soc. London 21 2 1934.—*G. nodosa subenodis* (Ed. MS.) R. B. Newton 1891 [var. n.] Lower Barton Beds Highcliff and Barton, WRIGLEY Proc. Malac. Soc. London 21 2 1934 p. 121 pl. xv f. 14.

†*Gyrineum goodspeedi* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 135 pl. xiii f. 5, 6.

†*Heliacus maorianus* sp. n. Upper Pliocene Cape Runaway, New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 268 pl. lviii f. 5-7.

Monetaria annulus variation of colour, F. A. SCHILDER 835.

Ovula Mus. d'Elbeuf, COULON 198.—*O. birostris* fig., KING & PING 485.

Persona Mus. d'Elbeuf, COULON 197.

†*Personella clarki* sp. n. Tertiary Gippisland Victoria, CHAPMAN & CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46 1 1934 p. 70 pl. v f. 11.

†*Phalium* (*Tylocassis*) *sulcosum senni* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 55 pl. iii f. 1, 2.

Ranella Mus. d'Elbeuf, COULON 197. —*R. subgranosa* figs., KING & PING 485.

†*Sconsia ambigua tessellata* var. n. Eocene Barton, WRIGLEY Proc. Malac. Soc. London 21 2 1934 p. 116 pl. xvi f. 18.

†*Semicassis* (*Semicassis*) *ravakuana* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 222 pl. xxxix f. 12.

Solarium incrassatum sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 242 pl. xxxv (xiii) f. 11–14.

†*Tonna* (*Malea*) *ringens densecostata* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 60 pl. iii f. 6, 7.

Triton Mus. d'Elbeuf, COULON, 197.

Trivia Mus. d'Elbeuf, COULON 198.

†*Trivia* (*Trivia*) *koroensis* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 220 pl. xxxix f. 9, 10.

Triviella splendidissima sp. n. S. Africa, TOMLIN & SCHILDER Ann. S. Afr. Mus. 30 3 1934 p. 477 figs.

Zoila (*Protocypraea*) *fultoni* (Sow.) figs., TOMLIN & SALISBURY 966.

PTENOGLOSSA.

IANTHINIDAE, EPITONIIDAE.

Aelis ? *angulifera* (Yokoyama), KURODA 520.

Epitonium australe fig., ALLAN 20.

Ianthina fig., ALLAN 20.

Scala, WINCKWORTH 1042.

†*Scala miyakoensis* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 241 pl. xxxviii (xvi) f. 11, 12.

†*Scalaria blakei* sp. n. [vide Rissoidae p. 68 under which the author places it].

†*Epitonium* (*Cirsotrema*) *suboptima* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 159 (51) pl. v (i) f. 41. —*E. (Arctoscala) saundersi* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 133 pl. xiii f. 7–9.

GYMNOGLOSSA.

PYRAMIDELLIDAE, STROMBIFORMIDAE.

†*Belonidium polygyratum*, WRIGLEY 1055.

†*Chemnitzia boulei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Geol. Serv. Mines Madagascar 3 1933 p. 57 pl. vi f. 7.

Eulima v. *Balcis* for *Strombiformis* auct. and *Eulima* auct. respectively, WINCKWORTH 1041.

†*Loxonema* (*Zygopleura*) *haberi* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1–3 1934 p. 42 pl. i f. 20.

Melanella holothuricola sp. n. on the tentacles of *Holothuria atra* Weim Island Dutch East Indies, ADAM Mem. Mus. Hist. nat. Belg. Hors Série 2 14 1934 p. 109 f. 16a.

†*Syrnola lawsi* p. 266 pl. lvii f. 1, 2; *S. tepikiensis* p. 266 pl. lvii f. 3 spp. n. Upper Pliocene, Cape Runaway, New Zealand, POWELL Rec. Auckland Hist. Mus. 1 5 1934.

†*Odostomia gallegosi* sp. n. Pleistocene Maria Magdalena Is., HERTLEIN Bull. S. Calif. Acad. Sci. 33 2 1934 p. 67 pl. xxi f. 3.

NUCLEOBRANCHIATA.

PTEROPODA.

†*Atlanta*, RUTSCH 824.

†*Bowdenathea* type *jamaicensis* gen. et sp. n. Middle Miocene Jamaica, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 221 pl. xiii f. 13–15.

†*Carinaria*, RUTSCH 824.

Cavolina, RUTSCH 824.

†*Cavolina mexicana* p. 182, pl. vii f. 12–15, Mexico; *C. floridana* p. 193 pl. x f. 4–6, Florida, spp. n. Tertiary, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934. —*C. telemus rewaensis* subsp. n. Quaternary Fiji

p. 235 pl. xli f. 11, pl. xlii f. 1; *C. osoica* sp. n. p. 236 pl. xlii f. 4, 5 Tertiary, LADD Bull. Bishop Mus. Honolulu 119 1934.

†*Cleodora bowdenensis* sp. n. Middle Miocene (Tertiary) Jamaica, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 201 pl. xii f. 3-7.

Clio figs., HOFFMANN 424.

†*Clio lavayssei* sp. n. Tertiary Trinidad, RUTSCH Ecl. Geol. helv. 27 2 1934 p. 308 pl. viii f. 4, 5.

Clione limacina, PRUVOT-FOL 764.

†*Conularia trauthi* sp. n. Trias Europe, GUGENBERGER Cbl. Min. Geol. Paläont. Stuttgart B 4 1934 p. 190.—*C. scotica* sp. n. Ordovician Girvan, LAMONT Geol. Mag. London May 1934 p. 224 pl. xi f. 8, 9 and text-fig.—*C. bundenbachia* fig., OPITZ 694.

†*Cuvierina tubulata* p. 224 pl. xiv f. 10-13 Mexico; *C. globosa* p. 225 pl. xiv f. 8-9, spp. n. Mid Miocene (Tertiary) Santa Rosa, Mexico, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934.

†*Hormotoma gracilis pusilla* sp. n. Ordovician Albany, N.Y., RUEDEMANN Mem. Geol. Soc. America 2 1934 p. 90 pl. xx f. 3, 4.

†*Hyalocylix haitiensis* sp. n. Miocene Haiti, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 211 pl. xii f. 1-2.

†*Hyalithes triadicus* sp. n. Trias Europe, GUGENBERGER Cbl. Min. Geol. Paläont. Stuttgart B 4 1934 p. 192.—*H. divaricatus* sp. n. Cambrian Europe, SCHWARZBACH Abh. naturg. Ges. Görlitz 32 2 1934 p. 16 fig. 18.—*Hyalithes* cf. *cybele* pl. ii f. 23, *H. (Orthotheca) daulis, lineatulus*, F. R. C. REED 778.

†Hyalithidae, RUEDEMANN 818.

†*Lapworthella*, F. R. C. REED 778.

Limacina retroversa fig., JOHNSTONE 459.

†*Limacina elevata* sp. n. Tertiary (Mid. Miocene) Mexico, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 181 pl. vii f. 9-11.

Pteropoda, HOFFMANN 424.

†*Stenotheca cornucopia* "Salter MS." Hicks, Cambrian S. Wales, COBBOLD 164.

†*Tibiella texana* sp. n. Middle Eocene (Tertiary) Texas, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 227 pl. xiv f. 2-5.

†*Vaginella senonica* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 275 pl. xiv f. 201, 202.—*V. floridana* p. 216 pl. xiii f. 22-23 Lower Miocene Florida; *V. venezuelana* p. 219 pl. xiv f. 18-20 Lower Miocene Venezuela; *V. caribbeana* p. 220 pl. xiv f. 16-17, Middle Miocene Canal Zone spp. n. Tertiary, COLLINS John Hopkins Univ. Stud. Geol. Baltimore 11 1934.—*Vaginella*, RUTSCH 824.

†*Euchilotheca succincta* fig., WRIGLEY 1055.

STENOGLOSSA.

(a) RHACHIGLOSSA.

CORALLIOPHILIDAE, BUCCINIDAE, NASSARIIDAE, MURICIDAE, THAIDIDAE, PYRENIDAE.

†*Agnewia kempae* sp. n. Upper Pliocene Cape Runaway, New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 273 pl. lix f. 19, 20.

Ancistrolepis clarki p. 131 pl. xii f. 14, *A. landesi* p. 132 pl. xiii f. 1-4, spp. n. Upper Oligocene Washington, TEGLAND Univ. Calif. Pub. Geol. 23 3 1933.

Antizafra vivens sp. n. Whangaria Heads N.Z., POWELL Trans. Proc. Roy. Soc. N.Z. 64 2 1934 p. 159 pl. xxii f. 7, 8.

Austromitra erecta sp. n. Tanpo Bay, Whangaroa, POWELL Trans. Proc. Roy. Soc. N.Z. 64 2 1934 p. 156 pl. xxii f. 12.

Austrosipho (Verconella) adusta (Phil.) recent fig., POWELL 755.

†*Austrosipho (Verconella) edita* sp. n. Upper Pliocene Cape Runaway, New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 271 pl. lx f. 24, 25.

†*Bruclarkia thor* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 130 pl. xii f. 9-12.

Buccinum (Euthrena) suteri sp. n. Whangaroa, N.Z., POWELL Trans. Proc. Roy. Soc. N.Z. 64 2 1934 p. 156 pl. xxi f. 6.

†*Buccinulum (Evarnula) gracillimum* sp. n. Upper Pliocene Cape Runaway, New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 270 pl. lviii f. 8, 9.

Buccinum undatum (cholesterol), BERGMANN 91.—*B. terrae-novae* Beck var. *tenuisculpta* Dautz & Fisch, DEGENER 218.—*B. undatum*, KRÜGER 507.—*B. bischkeanum* fig., KURODA & KOBAYASHI 526.

†*Buccinum* (?) *besairiei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Geol. Serv. Madagascar 4 1934 p. 40 pl. vi f. 3.—*Buccinum janitor* p. 67 pl. i f. 1–5; *B. j. sokolovi* p. 68 pl. i f. 6–9; *B. neutrum* p. 70 pl. i f. 10–16; *B. n. pergrave* p. 71 pl. i f. 17–20; *B. praeakburunense* p. 72 pl. i f. 27–29; *B. trifurmis* p. 72 pl. i f. 21–26; *B. t. pellax* p. 73 pl. i f. 21–22; *B. t. tesovense* p. 73 pl. i f. 23–24; *B. t. dubitabile* p. 75 pl. i f. 25–26, spp. et vars. n.; *B. duplicatum* Sow. vars. *longinquum* p. 81 pl. i f. 36–38; *gradarium* p. 81 pl. ii f. 1–5, *ominosum* p. 82 pl. ii f. 6–9, vars. n.; *B. seminovale* p. 83 pl. ii f. 13–16; *B. mirandum* p. 84 pl. ii f. 10–12; *B. opinabile* p. 84 pl. ii f. 17–22; *B. o. trabale* p. 85 pl. ii f. 23–25; *B. superabile* p. 86 pl. ii f. 26–28; *B. s. marcidum* p. 86 pl. ii f. 31–35; *B. s. luxuriosum* p. 87 pl. ii f. 29–30; *B. lymnaeiformis* p. 87 pl. ii f. 33–35; *B. pseudogracile* p. 97 pl. iii f. 11–14, spp. et vars. n.; *B. verneuilii* Orb. v. *semiferum* var. n. p. 99 pl. iii f. 23–24; *B. renovatum* p. 100 pl. iii f. 25–28; *B. seminudum* p. 101 pl. iii f. 29–32; *B. repuerasco* p. 102 pl. iii f. 33–35, spp. n.; *B. corbiamum* Orb. v. *pseudobaccatum* p. 104 pl. iv f. 6–9; v. *tolerabile* p. 105 pl. iv f. 10–11 vars. n.; *B. fraudulentum* p. 105 pl. iv f. 15–18; *B. impexum* p. 106 pl. iv f. 12–14; *B. omnivagum* p. 107 pl. iv f. 19; 22; *B. torpidum* p. 108 pl. iv f. 26–29, *B. nasutum* p. 109 pl. iv f. 23–25; *B. gricevense* p. 111 pl. iv f. 39–40; *B. kishinevense* p. 112 pl. iv f. 41–42; *B. ignoble* p. 112 pl. iv f. 33–36; *B. orgeevense* p. 113 pl. iv f. 43; *B. akburunense* Andrus v. *enikalense* p. 115 pl. v f. 6–9; *a. sequax* p. 116 pl. v f. 14–21; *B. nefandum* p. 117 pl. v f. 22–26; *B. egorlykense* p. 117 pl. v f. 10–11; *B. multicostatum* Kudr. v. *armavirense* p. 120 pl. v f. 43–44; *B. maturatis* p. 121 pl. v f. 35–37; *B. praedo* p. 122 pl. v f. 53–55, spp. et vars. n. all from

the Miocene, S. Russia, KOLESNIKOV Trav. Inst. Géol. Acad. Sci. U.R.S.S. 2 1932.

Bullia rhodostoma, GÖTZINGER & BECKER 346.

†*Cantharus (Hanetia) gavianensis* sp. n. Tertiary Venezuela, RUTSCH Abb. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 71 pl. iv f. 14–17.

Columbella splendidula fig., KING & PING 485.—*C. avara*, SPEK 893.

†*Cominella retifera* sp. n. Tertiary Waisiu, E. Indies, MARTIN Leidsch. Geol. Mededeel. Leiden 6 1 1933 pp. 10, 26 pl. iv f. 25, 26.—*C. (Paracomina) ferrari* sp. n. Oligocene New Zealand, MARWICK Proc. Malac. Soc. London 21 1 1934 p. 18 pl. ii f. 18.—*C. (Cominula) kempi* sp. n. Upper Pliocene Cape Runaway New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 272 pl. lviii f. 12, 13.

Eburna [= *Babylonia*] *areolata* fig., KING & PING 485.

†*Egotistica* gen. n. (Neptuniidae) type *E. scirrhoma* sp. n. Tertiary New Zealand, MARWICK Proc. Malac. Soc. London 21 1 1934 pp. 16, 17 pl. ii f. 11.

Godfreyena gen. nov. of Buccinidae type *Cominella torri* Verco, IREDALE S. Aust. Nat. 15 2 1934 p. 58.

Ilyanassa obsoleta Say, C. & M. FENTON 261.

Liomesus ooides fig., KURODA & KOBAYASHI 526.

Murex (Bolinus) brandaris spirocaudata monst. n., COEN Boll. Soc. Venez. Stor. Nat. Venezia 1 4 1934 p. 43 pl. i.—*Murex brandaris, trunculus*, ALLAN 20.—*M. brandaris, trunculus, erinaceus*, ALPERS 26.—*M. trunculus, erinaceus, brandaris, sculpture*, LEVETZOW 567.—*M. anguliferus*, MANSOUR-BEK 600.—*M. trunculus*, VIALLI 1001.

†*Murexsul tepikiensis* sp. n. Upper Pliocene Cape Runaway New Zealand, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 272 pl. lix f. 14, 15.

Nassa crenata scutula [scutulata p. 64] var. n. = *N. cremata* [sic] Reeve non Hinds = *N. stigmatica* "A. Ad." Tryon Man. Conch. Philippines p. 16; *Nassa baguenai* nom. nov. p. 30 = *retecosa* A. Ad.; *N. percrassa* nom. nov. for *crassa* Reeve non Koch p. 24, MARI J. Conchyliol. Paris 78 1 1934.—*N.*

reticulata reaction to glycogen, HENSCHEL 408.—*N. gemmulata* fig., KING & PING 485.

†*Nassa* (*Hinia*) *reticulata* "var. A. nov. var." fig., VECCHI 997.

Nassarius (*Zeuxis*) *variciferus* (A. Ad.) fig., KAWAMOTO 473.

†*Nassarius kikaizimanus* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 160 (52) pl. v (i) f. 27.

Neptunea antiqua, LÖNNBERG 574.—*Neptunea* type *Fusus antiquus* monst. *contrarius* designated by Monterosato, WINCKWORTH 1041.

†*Neptunea* (*Sulcosipho*) *eatoni* sp. n. Middle Miocene California, GRANT & QUAYLE Nautilus 47 3 1934 p. 92 figs.

Nucella lapillus colour variation in WILKINS 1036.

Ocenebra not *Ocenebra*; *Vitularia* a separate genus, WINCKWORTH 1041.

†*Parangularia* [Muricidae] gen. n. p. 79 type *Purpuroidea raiblensis* Bl. var. *hungarica* Kutassy 1932, now raised to sp. n. rank p. 80, KUTASSY Mag. K. földt. Int. Évk. Pest. 64 4-6 1934 pl. iv f. 3-6.

†*Phos vitiensis* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 226 pl. xl f. 6.—*P. (Antillophos) mexicanus beudrati* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 68 pl. iv f. 9-13.

†*Pollia* (*Tritonidea*) *bassae* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 44 pl. v f. 5a, b.

†*Pseudoperissolax ? trophonoides* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 133 pl. xiii f. 10, 11.

Purpura succincta natalensis var. n. Indian Ocean, NARDINI Palaeontogr. ital. Siena 34 (1933) 1934 p. 205 pl. xv [ii] f. 15.—*P. lapillus*, ALLAN 20.—*P. lapillus*, FISCHER-PIETTE 282.—*P. alveolata*, luteostoma figs., KING & PING 485.—*P. lapillus* L., KOSTITZINE 503.

†*Purpura* (*Cymia*) *producta chezalensis* var. n. Pliocene Coo Id., VECCHI Bol. Soc. geol. ital. 52 2 1934 p. 244 pl. xiii f. 12.

†*Purpuroidea ferenezii* figs., *P. raiblensis hungarica* var. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 p. 247 pl. ii f. 25.

†*Pyrene* (*Strombina*) *gradata humboldti* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 67 pl. iv f. 7, 8.

Rapa rapa, incurva, rapiformis figs., KURODA 525.

Siphonalia fusoides (Reeve) on the shells and egg-capsules of, IW. TAKI 936.

†*Siphonalia semisulcata* sp. n. Tertiary Waisau E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 10, 25, pl. iii f. 23, 24.—*S. longicanalis* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 159 (51) pl. v (i) f. 26.

†*Tritonidea* (*Cantharus*) *viverrata*, MITZOPOULOS 635.

†*Trophon* (*Enatimene*) *metungensis* sp. n. Tertiary Gippsland Victoria, CHAPMAN & CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46 1 1934 p. 71 pl. v f. 9.

Trophonopsis (*Boreotrophon*) *xestra* fig., KURODA 525.

†*Typhis* (*Cyphonochelus*) *rugicostatus* sp. n. Tertiary Gippsland Victoria, CHAPMAN & CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46 1 1934 p. 72 pl. v f. 10.

Vitularia separate genus to *Ocenebra*, WINCKWORTH 1041.

†*Zeatrophon munitus* sp. n. Lower Pliocene New Zealand, MARWICK Proc. Malac. Soc. London 21 1 1934 p. 18 pl. ii f. 17.

Zemitrella contigua sp. n. Upper Pliocene Cape Runaway, POWELL Rec. Auckland Inst. Mus. 1 5 1934 p. 274 pl. lix f. 21, 22.

TURBINELLIDAE, FASCIOLARIIDAE, MITRIDAE, VOLUTIDAE, MARGINELLIDAE, HARPIDAE, OLIVIDAE.

†*Ancilla latifasciata* sp. n. Tertiary Waisau E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 10, 22, pl. iii f. 18, 19.—*A. (Eburna) glabrata speciosa* subsp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 78 pl. v f. 6, 7, text-fig. 10.

†*Clavilithes maximus*, WRIGLEY 1055.

Cottonia gen. nov. of Volutidae type
Scaphella dannevigii Verco, IREDALE S.
Aust. Nat. 15 2 1934 p. 57.

†*Clavilithes konjarovi* sp. n. Eocene
Bulgaria, GOČEV Z. Bulgar. geol. Ges.
Sofia 5 3 1933 p. 188 pl. v f. 7.

Fasciolaria coronata egg capsules,
ALLAN 23.

†*Fasciolaria stoliczkai* nom. nov. for
F. rigida Stol. 1687, non *Voluta rigida*
Baily 1855, *Cryptorhytis* r. Woods, O. r.
Rennie, COLLIGNON Ann. Geol. Serv.
Madagascar 4 1934 p. 44 pl. vi f. 7, 8.
—†*Fasciolaria* ? *calappa* sp. n. Cretaceous
Peru, OLSSON Bull. Amer. Paleont.
Ithaca 20 69 1934 p. 70 pl. iv f. 2.—
†*Fasciolaria* (*Xancus*) *semistriata* fig.,
TRECHMANN 971.

†*Fascioplex* gen. n. (Fasciolariidae)
type *Galeodes* (Pugilina) *liraecostata*
Suter Eocene (= *Rapana neozelanica*
Suter), MARWICK Proc. Malac. Soc.
London 21 1 1934 p. 15 pl. i f. 7, 9.

Fulgur carica, *canaliculata* (sterols),
BERGMANN 91.

Fusinus simplex fig., KURODA 525.

†*Fusinus henikeri vonderschmidti*
subsp. n. Tertiary Venezuela, RUTSCH
Abh. Schweiz. Palaeont. Gesell. 54, 55,
1934 p. 77, pl. vi f. 5, 6, pl. vii f. 2.—
F. (Priscofusus) stewarti sp. n. Upper
Oligocene U.S.A., TEGLAND Univ.
Calif. Pub. Geol. 23 3 1933 p. 129 pl. xii
f. 4-8.

†*Fusus pectinatus* sp. n. Tertiary
Waisiu E. Indies, MARTIN Leidsche
Geol. Mededeel. Leiden 6 1 1933 pp. 10,
23, pl. iii f. 20, 20a.

†*Glaphyrina vulpicolor annectens*
subsp. n. Upper Pliocene Cape Runaway
New Zealand, POWELL Rec. Auckland
Inst. Mus. 1 5 1934 p. 270 pl. lx f. 28, 29.

Hemifusus tuba figs., KING & PING
485.

†*Lathyrus ktolemandoënsis* (*Peri-
sternia*) *waisiuensis* Waisiu pp. 10, 24
pl. iii f. 21, 21a, *Ktolemando* pp. 10, 25
pl. iii f. 22, 22a spp. n. Tertiary E.
Indies, MARTIN Leidsche Geol.
Mededeel. Leiden 6 1 1933.

†*Glaphyrina vulpicolor annectens*
subsp. n. Pliocene Cape Runaway, N.Z.,
POWELL Rec. Auckland Inst. Mus. 1 5 1934
p. 270 pl. lx f. 28, 29.

Marginella cypraeaformis sp. n.
Indian Ocean, NARDINI Palaeontogr.
ital. Siena 34 (1933) 1934 p. 194 pl. xiv
[i] f. 18.

†*Marginella kalimnae* sp. n. Tertiary
Gippsland Victoria, CHAPMAN &
CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46
1 1934 p. 73 pl. v f. 12.—*M. (Prunum)*
berjadinensis suteri subsp. n. Tertiary
Venezuela, RUTSCH Abh. Schweiz.
Palaeont. Gesell. 54, 55 1934 p. 93 pl. viii
f. 6-9.—*M. sheppardae* sp. n. Upper
Oligocene U.S.A., TEGLAND Univ.
Calif. Pub. Geol. 23 3 1933 p. 127 pl. x
f. 22, 23.

Megalatractus aruanus, ALLAN 23.

Melo flammeum egg capsules, ALLAN
23.

Melongena corona altispira f. nov.
Brevard Co. [Florida], PILSBRY &
VANATTA Nautilus Philad. 47 4 1934
p. 119 pl. xii f. 5.

†*Miopleiona weaveri* sp. n. Upper
Oligocene U.S.A., TEGLAND Univ.
Calif. Pub. Geol. 23 3 1933 p. 127 pl. xi
f. 1-5.

Mitra zaca sp. n. Acapulco Mexico,
STRONG, HANNA & HERTLEIN Proc.
Calif. Acad. Sci. (4) 21 10 1933 p. 120
pl. v f. 10 [= *swainsoni* Brod.].—*Mitra*
stefaninii sp. n. Indian Ocean, NARDINI
Palaeontogr. ital. Siena 34 (1933) 1934
p. 196 pl. xiv [i] f. 21.—*M. scrobiculata*
variation, RAVETTA 776.

†*Mitra (Tiara) figiensis* pl. xl f. 7;
M. (T.) nasongoensis pl. xl f. 8 spp. n.
Quaternary Fiji, LADD Bull. Bishop
Mus. Honolulu 119 1934 p. 227.—*M.*
(*Tiara*) *sieversi* sp. n. Tertiary Venezuela,
RUTSCH Abh. Schweiz. Palaeont. Gesell.
54, 55 1934 p. 84 pl. vi f. 7, 8.

Oliva reticularis bollingi subsp. n.
Miami Florida, CLENCH Nautilus Philad.
47 4 1934 p. 142 pl. vii f. 3, 4.

†*Oliva woolnoughi* p. 229 pl. xli f. 1,
makavana p. 230 pl. xl f. 11 spp. n.
Quaternary Fiji, LADD Bull. Bishop
Mus. Honolulu 119 1934.

Olivella mutica Say = *O. minuta*
Link, TOMLIN 960.

Omogymna Martens, TOMLIN 959.

Pusia hondana (Yokoyama), KURODA
520.

†*Turbonilla notata* fig., WRIGLEY
1055.

†*Volutocristata* gen. n. p. 245 type *V. chiapasensis* sp. n. p. 248 f. 10-12 Chiapas Mexico, GARDNER & BOWLES J. Wash. Acad. Sci. 24 6 1934.

†*Xancus episomus* Oligocene Palestine fig., L. R. Cox 199.

STENOGLOSSA.

(b) TOXOGLOSSA.

**TURRIDAE, TEREBRIDAE, CONIDAE,
CANCELLARIIDAE, HALIIDAE.**

Allo allo sp. n. Red Sea Lamy = *Feliciella joussemaei* "n. sp." Lamy over which *A. a.* has unfortunately precedence in the article, J. Conchylol. Paris 78 1 1934 p. 67 figs.

†*Bathytoma hetzeli* Waisiu pp. 9, 21 pl. iii f. 16, 16a; *B. tesohensis* Tesoh pp. 9, 21 pl. iii f. 17, 17a spp. n. Tertiary E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933.

†*Borsonia germaraadi* sp. n. Tertiary Waisiu E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 9, 20 pl. ii f. 15.

Buchema subgen. n. of *Carinodrillia* type *Buchema tainoa* sp. n. Puerto Rican Deep, COREA Smithson. Misc. Coll. 91 16 1934 pp. 1, 2 figs. vide *Carinodrillia*.

†*Cancellaria tholoensis* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 230 pl. xli f. 2.—*C. reticulata leuzingeri* subsp. n. p. 89 pl. vii f. 10, 11, pl. viii f. 1-2, 5; *C. kugleri* sp. n. p. 90 pl. viii f. 3, 4 Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54-55 1934.

Carinodrillia (*Buchema*) *tainoa* p. 2 pl. 1 f. 5, 6, pl. 2 f. 7, pl. iii f. 1; *C. (B.) suimaca* p. 3 pl. i f. 3, 4, pl. ii f. 1, pl. iii f. 3; *C. (B.) mamona* p. 5 pl. ii f. 2, 3, 5, pl. iii f. 4; *C. (B.) apitao* p. 7 pl. i f. 1, 2, pl. ii f. 6, pl. iii f. 2; *C. (B.) liella* p. 8 pl. ii f. 4, 8, 9, pl. iii f. 5 Puerto Rican Deep, COREA Smithson. Misc. Coll. 91 16 1934.

†*Clavatula* (*Fusiturricula*) *pagodula* sp. n. Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934 p. 95 pl. v f. 12, pl. vii f. 9 text-fig. 10.

†*Clinuropsis diderrichi* fig., SCOTT 857.

Compsodrillia petersoni p. 19 pl. v f. 6, 7, 9; *disticha* p. 20 pl. vi f. 6-8; *nana* p. 21 pl. vi f. 1-3, spp. n. Puerto Rico Deep, BARTSCH Smithson. Misc. Coll. 91 2 1934.

†*Conus* (*Leptoconus*) *petrolei* Tertiary Waisiu E. Indies p. 17 pl. ii f. 9, 9a; *umbgrovei* pp. 9, 18 pl. ii f. 11, 11a, spp. n. Tertiary E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933.—*Conus hanza*, KUMAR & PICHAMUTHU 517.

†*Cryptoconus carinatus* sp. n. Tertiary Waisiu E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 9, 18 pl. ii f. 11, 11a.

†*Cryptogemma borgenae* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 125 pl. x f. 9-11.

†*Daphnella granulosa* sp. n. Tertiary Gippsland Victoria, CHAPMAN & CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46 1 1934 p. 73 pl. v f. 13.

Darbya gen. n. p. 22 (Turridae), type *D. lira* sp. n. Puerto Rico Deep, BARTSCH Smithson. Misc. Coll. 91 2 1934 p. 23 pl. vi f. 4, 5, pl. vii f. 6, 8.

Douglassia gen. n. p. 5 (Turridae) type *D. enae* sp. n. W. Coast Florida (U.S. Nat. Mus. "*Drillia thea*" Dall, var.), BARTSCH Smithson. Misc. Coll. 91 2 1934 p. 6 pl. ii f. 1-3.

Eldridgea gen. n. (Turridae) type *E. johnsoni* sp. n. N. coast Puerto Rico, BARTSCH Smithson. Misc. Coll. 91 2 1934 p. 2 pl. i f. 1-3.

†*Etrema morningtonensis* sp. n. Tertiary Mornington Victoria, CHAPPLE Mem. Nat. Mus. Melbourne 8 1934 p. 164 pl. xix f. 4, 4a.

†*Exilia mclellani* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 126 pl. x f. 19-21.

Feliciella joussemaei "n. sp." Red Sea nom. nov. for *Allo allo* (Joussemae MS.) Lamy. [This is a synonym of *Allo allo*, which name Lamy himself published in the same article as, and preceding, *Feliciella*], LAMY J. Conchylol. Paris 78 1 1934 p. 67 figs.

Fenimorea gen. n. p. 3 (Turridae) type *F. janeta* sp. n. Puerto Rico Deep 33-40 fms., BARTSCH Smithson. Misc. Coll. 91 2 1934 p. 4 pl. i f. 4-7.

Fusisyrinx gen. n. (Turridae) type *F. fenimorei* sp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934 p. 7 pl. ii f. 4, 5.

Fusiturricula enae sp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934 p. 13 pl. iii f. 1, 2, 10.

†*Gemmula fellibrandensis* sp. n. Tertiary Gellibrand River Victoria, CHAPPLE Mem. Nat. Mus. Melbourne 8 1934 p. 163 pl. xix figs. 3, 3a.

Glyphostoma (*Glyphostoma*) *epicasta* p. 14 pl. iv f. 4, 7, 9; *G. (G.) elsae* p. 15 pl. iv f. 1, 3, 6; *G. (G.) herminea* p. 16 pl. iv f. 2, 5, 8; *G. (Glyphostomops) hendersoni* p. 17 pl. v f. 2, 5, 8; *G. (Glyphostomops) oenoe* p. 18 pl. v f. 1, 3, 4, spp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934.

Glyphostomops subgen. n. of *Glyphostoma*, type *G. (G.) hendersoni* sp. n. (q.v.), BARTSCH Smithsonian. Misc. Coll. 91 2 1934 p. 17.

†*Guraleus cuspidatus* sp. n. Tertiary Mornington, Victoria, CHAPPLE Mem. Nat. Mus. Melbourne 8 1934 p. 164 pl. xix f. 5, 5a.

Haedropleura of Plymouth, egg and larvae of, LEBOUR 556.

†*Hastula fraasi haifensis* var. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 274.

Iredalula venusta sp. n. off Cape Campbell N.Z., POWELL Trans. Proc. Roy. Soc. N.Z. 64 2 1934 p. 157 pl. xxii f. 9.

Leptodrililla splendida p. 24 pl. vii f. 2, 5, 7; *loria* p. 25 pl. vii f. 1, 3, 4, spp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934.

Leucosyrinx janetae sp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934 p. 11 pl. iii f. 3, 11, 12.

†*Leucosyrinx clallamensis wardi* subsp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 124 pl. x f. 5-8.

Liratililla subnodosa sp. n. Taupo Bay, Whangaroa N.Z., POWELL Trans. Proc. Roy. Soc. N.Z., 64 2 1934 p. 158 pl. xxi f. 4, 5.

Lora of Plymouth, eggs and larvae, LEBOUR 556.

†*Lora kamschatica* Il. "(n. sp.)," SLODKIEWICZ 877.

Mangelia albivestis nom. nov. for *Mangelia pura* Pils. not *Mangelia pura* Gould, PILSBRY Nautilus Philad. 47 4 1934 p. 146.—*Mangelia* of Plymouth, eggs and larvae, LEBOUR 556.—*Mangelia*, Notes on Reeve's Monograph of, TOMLIN 963.

Philbertia of Plymouth, eggs and larvae, LEBOUR 556.

Pleurotoma deshayesii fig., KING & PING 485.—*Pleurotoma*, Notes on Reeve's Monograph of, TOMLIN 962.

†*Pleurotoma* [Turris] (*Hemipleurotoma*) *oppenheimi* sp. n. pp. 91, 107 pl. iii f. 7, 7a; *P. (Surcula) koeneni* sp. n. pp. 92, 108, Tertiary Burgas, Bulgaria, GOČEV Ann. Univ. Sofia 25 3 1929.—*P. butonensis* sp. n. Buton pp. 9, 19 pl. ii f. 12, 13; *ktolemandoensis* sp. n. Ktolemando pp. 9, 20 pl. ii f. 14, 14a East Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933.

Polystira florencae p. 9 pl. iii f. 4-7; *macra* p. 10 pl. iii f. 8, 9, 13, 14 spp. n. N. Coast of Puerto Rico, BARTSCH Smithsonian. Misc. Coll. 91 2 1934.

†*Rhaphitoma granulidecussata* sp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 162 (54) pl. v (i) f. 25.

Syntomodrililla woodringi p. 27 pl. viii f. 5, 7, 9; *carolinae* p. 27 pl. viii f. 1, 4, 8; *tantula* p. 28 pl. viii f. 2, 3, 6 spp. n. Puerto Rico Deep, BARTSCH Smithsonian. Misc. Coll. 91 2 1934.

Terebra cumingi ragazzii var. n. Indian Ocean, NARDINI Palaeontogr. ital. Siena 34 (1933) 1934 p. 182 pl. xiv [i] f. 2, 3.

†*Terebra waisiuiensis* sp. n. Tertiary Waisiu E. Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 9, 16 pl. ii f. 8.—*T. hanzawai* p. 160 (52) pl. v (i) f. 22; *orthoplicata* p. 161 (53) pl. v (i) f. 21 spp. n. Cretaceous Japan, NOMURA & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934.—*T. (Strioterebrum) gatunensis kugleri* subsp. n. p. 106 pl. viii f. 18, 19, pl. ix f. 12, 13; *T. (Strioterebrum) bowdenensis meesmanni* subsp. n. p. 108 pl. ix f. 14-16; *T. (Paraterebra) lehneri* sp. n. p. 109 pl. ix f. 17, Tertiary Venezuela, RUTSCH Abh. Schweiz. Palaeont. Gesell. 54, 55 1934.

Turricula coreanica figs., KURODA 525.

†*Turris janjukiensis* sp. n. Tertiary Torquay Victoria, CHAPPLE Mem. Nat. Mus. Melbourne 8 1934 p. 163 pl. xix f. 2, 2a.

†*Uttleya* type *arcana* gen. et sp. n. (? Turridae) Upper Pliocene New Zealand p. 19 pl. ii f. 12; *U. crenata* sp. n. Middle Pliocene New Zealand p. 20 pl. ii f. 10; *U.* sp. p. 20 pl. ii f. 13, MARWICK Proc. Malac. Soc. London 21 1 1934.

Opisthobranchia.

Abranchiatae subord. nov. (Oncidiidae and Oncidiellidae), LABBÉ Bull. Soc. zool. Fr. 59 1934 p. 217.

†*Actaeonella peruviana* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 71 pl. ix f. 7.

†*Actaeonina* [p. 188, *Actoeonina*] (*Ovulactaeon*) *yeharai* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 263 pl. xxxiii (xi) f. 3.

Aegires (Anaegires) protectus sp. n. Antarctic, ODHNER Brit. Antarc. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 p. 241 pl. i f. 4-6.

Aeolidia papillosa, ROUSSEAU 817.

Ancula figs., HOFFMANN 424.

Aplysia, ENGEL 252.—*A. punctata*, FISCHER-PIETTE 273.—*A. limacina* (nerve reactions), JORDAN & LULLIES 461.—*A. punctata*, KRÜGER 507.—*A. californica*, LOWE 577.—*A. limacina*, OTTO 696.—*A. punctata*, TCHANG 941.

Aplysiella weebii, TCHANG 941.

Aplysiidae of Blainville, ENGEL 252.

Atopus, HEURN 417.

Austrodonis macmurdensis p. 260 pl. i f. 9, 10, pl. ii f. 16-18; *tomentosa* p. 265 pl. ii f. 19, 20; *nivium* p. 267 pl. ii f. 21-23 spp. n. Antarctic, ODHNER Brit. Antarc. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 and text-figs.

†*Avellana minima* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 265 pl. xxxvi (xiv) f. 12-18.

Baeolidia japonica sp. n. Tomioka Bay, Japan, BABA Annot. zool. jap. 14 1933 p. 282 f. 8.

Bathydoris obliquata sp. n. Antarctic, ODHNER Brit. Antarc. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 p. 233 pl. i f. 1-3 and text-fig.

Berghia coerulescens, FISCHER-PIETTE 273.

Cadlina affinis sp. n. Antarctic, ODHNER Brit. Antarc. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 pp. 231, 251 pl. i f. 7, 8 and text-figs.

Carinaria, FIGGE 263.

Dendrobranchiatae suborder n. (Peroniidae and Scaphidae), LABBÉ Bull. Soc. zool. Fr. 59 1934 p. 217.

Dendrodonis miniata figs., BABA 52.—*Dendrodonis* figs., HOFFMANN 424.

Diaphanosoma brachyurum, VANNINI 993.

Discodoris concinna, *pardalis* figs., BABA 52.

Doridigitata sticta add. to British List, WINCKWORTH 1041.

Doridium carnosum nerves fig., STORK 912.—*D. carnosum*, TCHANG 941.—*D. membranaceum*, *carnosum* figs., VAYS-SIÈRE 996.

Doris tuberculata, KRÜGER 507.

Duvaucelia irrorata figs., BABA 52.—*Duvaucelia* figs., HOFFMANN 424.

Embletonia fuscata Gld. reproductive organs, CHAMBERS 142.

Eubranchius adarensis sp. n. Antarctic, ODHNER Brit. Antarc. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 p. 283 pl. iii f. 29 text-figs.

Favorinus, HOFFMANN 424.

Glaucus atlanticus common on gulfe-weeds, RUEDEMANN 818.

Goniodoris ovata sp. n. Simon's Bay (from bottom of ship) S. Africa, BARNARD J. Conch. London 20 1 p. 3 text-figs.—*G. nodosa*, FISCHER-PIETTE 273.

Haminea paulae sp. n. Indian Ocean, NARDINI Palaeontogr. ital. Siena 34 (1933) 1934 p. 180 pl. xiv [i] f. 1.

Lessonia gen. n. pp. 187, 213 for *Onchidium ferrugineum* Lesson, LABBÉ Ann. Inst. Oceanogr. Paris 14 5 1934 p. 213 f. 48-50.

Limapontia depressa pellucida var. n. Tynninghame Sands nr. Dunbar, KEVAN J. Conch. London 20 1 1934 p. 18.—*L. depressa*, PELSENEER 715.

Lissodoris mollis gen. et sp. n. (Chromodorididae) nr. N. Cape, New Zealand, ODHNER Brit. Antarct. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 pp. 231, 245 text-figs.

Lobiger philippii, TCHANG 941.

Notaolidia robsoni sp. n. Antarctic, ODHNER Brit. Antarct. ("Terra Nova") Exped. 1910 Zool. 7 5 1934 p. 278 pl. iii f. 27, 28 text-figs.

Notarchus neapolitanus nerves fig., STORK 912.

Oncidiella celtica Cuv. *O. borealis* Dall. classification, LABBÉ 534.—*O. celtica*, R. LAMI 546.

Oncidiellidae fam. nov. (genera *Oncidiella* Gray, *Oncidina* Semper, *Peronina* Plate, *Watsoniella* Hoffmann), LABBÉ Bull. Soc. zool. Fr. 59 1934 p. 217.—Oncidiellidae hist. nat. Paris, LABBÉ 533.

Oncidiidae fam. nov. (genera *Oncidium* Buch., *Paraoncidium* Labbé, *Oncis* Plate, *Semperella* Labbé), LABBÉ Bull. Soc. zool. Fr. 59 1934 p. 217.—Oncidiidae fam. n. p. 218 [Oncidiidae was used by Thiele 1931 Handb. p. 486] gen. *Oncidium* Buchanan 1800, emend. Labbé = *Oncidium* pars Buch., *O. lixii* sp. n. New Caledonia p. 227 f. 65–67, LABBÉ Ann. Inst. Océanogr. Paris 14 5 1934.—Oncidiidae hist. nat. Paris, LABBÉ 533.

Oncidina Semper (emend. Labbé), *O. guineensis* sp. n. New Caledonia, LABBÉ Ann. Inst. Océanogr. Paris 14 5 1934 p. 243 f. 79–81.

Oncidium leopoldi p. 70 pl. i f. 4 text-figs. 10A, 11B, 13, 15, 23, 26, 33–35; *O. astridae* p. 77 pl. i f. 5 text-figs. 18–38; *O. straelenii* p. 75 pl. i f. 6 text-figs. 17, 31, 37, spp. n. Dutch East Indies, LABBÉ Mem. Mus. Hist. nat. Belg. Hors serie 2 14 1934.—*O. verruculatum* (Cuv.) figs. of venous system, AWATI 50.—*O. verruculatum* a query, AWATI 51.—*O. dubium*, LABBÉ 537.

Opisthobranchia of Japan, list of the, KURODA 523.—Opisthobranchiata King Christian IX's Land, THORSON 950.

Oxygyrus, FIGGE 263.

Paraoncidium subgen. n. pp. 187, 228 of *Oncidium* [1st sp. *P. chameleon* Braz.], LABBÉ Ann. Inst. Océanogr. Paris 14 5 1934 p. 228.

Paraperonia gen. n. pp. 187, 196; *fidjiensis* Fiji p. 197 f. 9–11; *madagascariensis* Madagascar p. 199 f. 15–18; *jousseau mei* Red Sea p. 198 f. 12–14; *gondwanae* Bombay p. 199 f. 19–21, spp. n.; *g. hombronii* var. n. Torres Str. p. 202 f. 23, LABBÉ Ann. Inst. Océanogr. Paris 14 5 1934.

Peronia gaimardi Vanikoro p. 194 f. 8; *anomala* Red Sea p. 195 spp. n., LABBÉ Ann. Inst. Océanogr. Paris 14 5 1934.—*Peronia* fig. general anatomy, LABBÉ 533.

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Philine angasi egg capsule, ALLAN 23.—*P. aperta* nerves fig., STORK 912.

Phyllodesmium hyalinum figs., BABA 52.

Pleurobranchus, HOFFMANN 424.

Pleurophyllidia loveni fig., DONS 232.

Quoya gen. n. pp. 187, 216 for *Q. indica* sp. n. "Indian Ocean," LABBÉ Ann. Inst. Oceanogr. Paris 14 5 1934 p. 216 f. 51–53.

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Scyllaea pelagica common on gulf-weeds, RUEDEMANN 818.

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Spiratella figs., HOFFMANN 424.

Spurilla (*Aeolidiella*) *glauca*, ROUSSEAU 817.

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Thecacera pennigera, FISCHER-PIETTE 276.

Tethys norfolkensis, ALLAN 20.—*T. californicus* egg laying, MACGINITIE 586.—*T. punctata* ecological notes, TAKAHASHI 933.

Tritoniella figs., ODHNER 681.

Tyrodina citrina, *rafinesquii* figs., PRUVOT-FOL & FISCHER-PIETTE 765.

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PULMONATA.

ELLOBIIDAE, SIPHONARIIDAE, CHILINIDAE, LYMNŌEIDAE, PLANORBIDAE, ANCYLIDAE, PHYSIDAE.

Ancylidae resisting desiccation, CAWSTON 138.

Ancylus striatus, *parallelus*, FORREST 289.—*A. fluviatilis* figs., FREYBERG 295.—*A. fluviatilis*, MOON 641.

Anisus (*Anisus*) *confusus* sp. n. = *Planorbis bakonicus* Halaváts pars. ŐCS, Soós Állat. Közlem. Budapest 31 3-4 1934 pp. 194, 205, fig. 5.

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Bullinus dissemination of ducts to the Assuan Dam, HELMY 402.—*B. contortus* autotefondation, LARAMBERGUE 554.—*B. (Isidora) dybowskyi*, *innesi*, *propicis* in Senegal, LEFROU 561.—*B. (Pyrgophysa) forskali*, LEFROU 561.

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Carychium stygium figs., GIOVANNOLI 336.

Cassidula quadrasi Hidalgo, TOMLIN 961.

Chilina dombeyana ganglia figs., KRULL 508.

Drapanotrema cultratum panuco Mexico p. 60 pl. ii f. 4-5a; *c. labrosum* Texas p. 61 pl. ii f. 9-11, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.

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Isidorella pyramidata (Sow.), QUICK 767.

Limnaea pereger maritima and monstrosity in Firth of Forth, KEVAN 480.—*L. stagnalis* reaction to coloured light, LICHE 569.—*L. peregra*, MOON 641.—*L. peregra* variation fig., PIERSANTI 726.—*L. stagnalis*, PROBST 763.—*L. stagnalis* infested with *Chaetogaster vermicularis*, SCHROEDER 852.—*L. truncatula*, TARNOGRADSKY & POPOV 940.

†*Limnaea kingi* p. 294 [194], *exilis* p. 296 [196], *exigua* p. 297 [197] spp. n., *truncatula tenua* p. 298 [198] var. n., Quaternary N.-W. China, PENG & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 figs.

Limnaeidae embryonic radulae, CAWSTON 139.

Limnaea (*Galba*) *palustris suridalsensis* p. 2 pl. i f. 1; *L. (G.) p. kazakensis* p. 3 pl. i f. 7; *L. (G.) p. draverti* p. 4 pl. i f. 9; *L. (G.) p. bolotensis* p. 5 pl. i f. 8, subsp. n., *L. (Radix) zazurnensis* p. 6 pl. i f. 2 sp. n. Northern Asia, MOZLEY Smithson. Misc. Coll. 92 2 1934.—*L. truncatula, pereger palustris*, CAWSTON 138.—*L. stagnalis appressa, palustris emarginata angulata, megasoma*, CHEATUM 150.—*L. columella*, COTTON & PENNYPACKER 179.—*L. (Stagnicola) palustris nuttalliana, p. wyomingensis, impedita, proxima buttoni, elrodi, hemp-hilli* figs. pl. xiv, J. HENDERSON 406.—*L. stagnalis wasatchensis* Hemp. Paul Lake B.C., RAWSON 777.—*L. (Radix) japonica* effects of X-rays upon, SONEHARA 882.

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Limnaeidae of Western Siberia, JOHANSEN 457.

Melampus cumingianus (Récluz), TOMLIN 961.

Menetus hudsonicus sp. n. Dutchess Co. N. York, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934 p. 64 figs. 7c-e.

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Parapholux solidus, effusus effusus figs., J. HENDERSON 405.

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Physastra esau sp. n. Sumatra, RENSCH Arch. Hydrobiol. Stuttgart Suppl. 13 2 1934 p. 208 pl. viii f. 19.—*P. ovalina* rad. fig., RENSCH 791.

Physopsis africana, globosa as hosts of Bilharziasis, CONNOLLY 180.—*P. globosa*, GERMAIN 323.—*P. africana*, LEFROU 561.

Planaria alpina, ABRAHAM & MODLINGER 3.

Planorbis berberensis nom. nov. for *P. siliceus* Cox, non Eichwald, non Brown & Pilsbry, L. R. COX Proc. Malac. Soc. London vol. 21 p. 8 1934.—*P. corneus* giant forms in Surrey, L. E. ADAMS 11.—*P. pfeifferi, stanleyi*, as hosts of Bilharziasis, CONNOLLY 180.—*P. opercularis planulatus*, W. O. GREGG 364.—*P. contortus, albus*, MOON 641.—*P. vortex* abnormalities figs., PIERSANTI 727.—*P. corneus*, PROBST 763.—*P. Paul*

Lake B.C., RAWSON 777.—*P. planorbis*, SCHMID 846.—*P. corneus* in Co. Down, WELCH 1031.

†*Planorbis (Gyraulius) yui* p. 300 [200], *paravortex* p. 301 [201] spp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 figs.—*P. störmi*, DEMBIŃSKA 222.

Planorbidae and Bilharzia, GAUTHIER 314.—Planorbidae of Western Siberia, JOHANSEN 457.

†*Platytaphius malheurensis* p. 268 pl. xxxvii f. 9a-c; *P. milleri* pp. 268, 269 pl. xxxvii f. 6a-c, spp. n. Pliocene Oregon, HENDERSON & RODECK J. Paleont. Sharon Mass 8 3 1934.

Radix ovata, FROMMING 300.

Seminolina subgen. n. of *Helisoma* (Planorbidae), type *Helisoma scalare* (Jay), PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934 p. 31 pl. vii f. 1-3.

Spiralina vorticulus chartea, HÄSLEIN 394.

Stagnicola yukonensis sp. n. "is described as *Galba vahlii* ('Beck' Moeller) Lymnaeidae of North and Middle America p. 270 pl. xxxix f. 11-18"; *S. johnsoni* sp. n. Banff. Alberta "erroneously referred to *L. traskii* Tryon" Lymnaeidae Monograph p. 368 pl. xxxix f. 9, 10, F. C. BAKER Canad. Field Nat. 48 4 1934 pp. 69-70.—*S. palustris magister* California p. 17 pl. xiv (vol. 47) fig. 1; *p. buttoni* Utah p. 18 pl. xiv (vol. 47) f. 4 vars. n.; *S. hemphilli* Utah p. 19 pl. xiv (vol. 47); *S. impedita* Utah p. 20 pl. xiv (vol. 47) f. 3, spp. n., F. C. BAKER Nautilus 48 1 1934.—*S. palustris elodes* fig., DOLLEY 231.—*S. palustris clessiniana*, HÄSLEIN 394.—*S. kingi*, early development, LOWRANCE 578.

†*Valenciennesia metochiana* sp. n. Miocene Serbia, PAVLOVICA Ghlas. srpsk. Kralj Akad. Belgrade 78 1933 p. 79 pl. i f. 1.

SELENITIDAE, ZONITIDAE, LIMACIDAE, PHILOMYCIDAE, ARIONIDAE, ARIOPHANTIDAE.

Aegopina szépii reproductive organs figs., Soós 884.

Aegopis verticillus, Soós 884.—*A. verticillus* fig., TOVIM 968.

Agriolimax paradisiacus sp. n. National Park Gran Paradiso Italy, GAM-

BETTA Il Parco naz. Gran Paradiso 3 1932 p. 142.—*A. (Hydrolimax) bureschi* sp. n. Bulgaria, WAGNER Bull. Inst. Roy. Hist. nat. Sofia 7 1934 p. 55 f. 7-9.—*A. (Hydrolimax) renschi* sp. n. Bulgaria, H. WAGNER Bull. Inst. Roy. Hist. nat. Sofia 7 1934 p. 89 f. 3.—*A. agrestis, laevis* habitats, BOYCOTT 124.—*A. agrestis* glands, FILHOL 265.—*A. agrestis*, FILHOL 266.—*A. agrestis*, I. & M. SZABÓ 928.—*A. laevis, agrestis*, I. & M. SZABÓ 929.—*A. agrestis* reproductive organs figs., SZABÓ 931.

Arion subfuscus gigas var. n. Hungary, SZABÓ Archiv. f. Moll. 66 3 1934 p. 152.—*A. subfuscus, hortensis* suspension by mucus thread figs., ALTENA 27.—*A. empiricorum*, ANDERSSON 30.—*A. ater, subfuscus, hortensis, circumscriptus, minimus* habitats, BOYCOTT 124.—*A. rufus* mucus glands, FILHOL 269.—*A. (Mesarion) subfuscus* Drap. reproductive organs, GAMBETTA 307.—*A. ater* L. var. white with head and tentacles black in Birdlip Woods, GRENTED 366.—*A. empiricorum* culture experiments, J. C. HILL 419.—*A. ater* variation in water content, HOWES & WELLS 436.—*A. hortensis* killed by *Carabus violaceus*, C. H. MOORE 642.—*A. subfuscus gigas, circumscriptus*, J. & M. SZABÓ 929.

Arionidae, ADAM 7.—Arionidae of Gran Paradiso, GAMBETTA 309.

Bielzia coerulans breeding habits, GERHARDT 321.

Calloretinella "subgen. n." of *Retinella* [Zonitidae] for *mavromoustakisi* sp. n. Cyprus, HAAS Senkenbergiana 16 1 1934 p. 16 f. 8.

Cryptozona (Nilgiria) strandi sp. n. Madras, SCHLESCH Archiv. f. Moll. 66 1 p. 46 pl. v f. 20a-d.

Daubebardia cavicola, J. WAGNER 1017.

Dyakia hugonis, sannio correction, LAIDLAW 545.

Euplecta montivaga sp. n. China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 20 pl. vi f. 4, 4a.

Helicarion depressiformis p. 279 f. 44; *vogeli* p. 283 f. 46-48; *camerunensis* p. 289 f. 50-53 spp. n. West Africa, DEGNER Zool. Jahrb. Jena (Syst.) 65 1934.—*H. altitudinis* sp. n. China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 19 pl. vi f. 5.

Hyalinia cellaria, *pura*, *lucida*, *rogersi*, *alliaria*, *nitidula*, *radiatula*, *crystallina*, *fulva*, habitats, BOYCOTT 124.

Ledoulxix inflata f. 18; *aethiopica* f. 19, spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Berlin 1933 4-7 p. 294.

Limacidae of Gran Paradiso, GAMBETTA 308.—Limacidae of Gran Paradiso, GAMBETTA 309.

Limax (*Limax*) *maximus budapestensis* "var. n." Arch. f. Moll. 64 1932 p. 103 Budapest, WAGNER Ann. hist. nat. Mus. hung. 28 1934 p. 15.—*Limax maximus* suspension by mucus thread fig., ALTENA 27.—*Limax cinereoniger*, *maximus*, *arborum*, *tenellus* habitats, BOYCOTT 124.—*L. maximus*, *cinereoniger*, *tenellus*, breeding habits figs., GERHARDT 321.—*L. flavus* variation in water content, HOWES & WELLS 436.—*L. tenellus*, *arborum*, *variegatus*, *cinereus*, *agrestis*, *cinereoniger*, KÜNKEL 518.—*L. tenellus*, LUNDGREN 580.—*L. cinerea*, STEFANELLI 897.—*L. cinerea* nervous system fig., STEFANELLI 898.—*L. flavus*, I. & M. SZABÓ 929.—*L. maximus* fig. stylommatophors, WÄCHTLER 1011.

Luchuconulus gen. n. [Ariophantidae] type *L. okinawanus*, PILSBRY 1928.

Macrochlamys dolani pl. iv. f. 10a, b; *segnis*, pl. iv f. 3a, b spp. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934 p. 19.

Malacolimax, WAGNER 1013.

Meghimatium subgen. n. (*Philomycus*) for *P. (M.) striatus* (van Hasselt), HOFFMANN Arch. Hydrobiol. Stuttgart Suppl. 13 2 1934 p. 260.

Microcystina (?) *retardata* sp. n. Bali, Baturiti, RENSCH Arch. Hydrobiol. Stuttgart Sup. 12 4 1934 p. 751 f. 5.—*Microcystina* (?) *subglobosa* rad. fig., RENSCH 785.

Microparmarion (*Collingea*) *hildegardi* sp. n. Sumatra, HOFFMANN Arch. Hydrobiol. Stuttgart Suppl. 13 2 1934 p. 263 f. 3, 4.

Milax (*Submalia*) *strandi* sp. n. Constantinople, WAGNER Folia zool. hydrobiol. Riga 5 1934 p. 331 figs. of genitalia.—*M. gagates* habitats, BOYCOTT 124.—*M. gracilis*, I. & M. SZABÓ 929.

Phenacolimax pellucidus figs., TOVIM 968.

Philomycus striatus, *pictus*, *bilineatus*, stylommatophors figs., WÄCHTLER 1011.

Poecilozonites cupula, *dalli*, *bermudensis*, *zonatus*, *nelsoni*, n. *callosus*, *reinianus antiquus*, *blandi*, *heilprini* in *Pliocene Bermuda*, KUTCHKA 531.

Polita villae, *depressa*, *draparnaldi*, HÄSLEIN 394.

Pseudoveronicella zootica figs. anat., DEGNER 220.

Rahula (*Sinaenigma*) *chengweiensis* sp. n. China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 20 pl. iv f. 9a-b.

Retinella (*Calloretinella*) subgen. n. q.v., *mavromoustakisi* sp. n. Cyprus, HAAS Senkenbergiana 16 1 1934 p. 6 f. 8.

Sheldonia, WATSON 1927.

Sinaenigma subgen. n. of *Rahula* (*Zonitidae*) with type *Rahula chengweiensis* sp. n. China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 21.

Sitala conradti sp. n. Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 317 f. 65.

Thapsia magna p. 292 f. 15; *paucispirata* p. 293 f. 16, 16a-b; *punctata* p. 293 f. 17, spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berl. 1933 4-7.

Vitrea contracta, HASLEIN 394.

Vitrina neumanni p. 290 f. 10; *olivacea* p. 291 f. 11 spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.—*V. pellucida major* habitats, BOYCOTT 124.

Vitrinidae of Gran Paradiso, GAMBETTA 308, 309.

Vitrinopugio kotulae West., FIEBIGER 262; *kotulae*, HÄSLEIN 394.

Xestina chrysoraphe krejci "n. sp." [? var. n.] Szytschuan China, HAAS Senkenbergiana Frankfurt 15 5-6 1933 p. 319 f. 8.

Zonitarion (*Granularion*) *aethiopicus* p. 291 f. 12; *kaffaensis* p. 292 f. 13; *jamjamensis* p. 292 f. 14, spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Zonites verticillus food and plant association, FROMMING 299.—*Z. algirus* pulmonary gland, TURCHINI & BROUSSY 978.—*Z. lesbicus* F. Käufel figs., WERNER 1033.

Zonitidae of Gran Paradiso, GAM-BETTA 308.

Zonitoides nitidus habitats, BOYCOTT 124.—*Z. arboreus*, GIOVANNOLI 336.—*Z. petronella*, HÄSLEIN 394.—*Z. nitidus*, *excavatus* dimorphism, H. WATSON 1026.

HELICIDAE.

Amphidromus (*Goniodromus*) *asper* f. 11, 12 sp. n., S. Annam; *A. (A.) moellendorffi* nom. nov. = *kobelti* Mlldf. 1902, non Rolle 1893, HAAS Senckenbergiana Frankfurt 16 2-3 1934 p. 96.—*A. sumatranus atjehensis* sp. n. Sumatra, B. RENSCH Archiv f. Moll. 66 6 1934 p. 333 pl. xiv f. 5, 6.—*A. adamsi* fig. stylommatophores, WÄCHTLER 1011.

Anguispira alternata sinistral from Michigan, ARCHER 38.

Arianta arbustorum food and plant association, FROMMING 299.—*A. arbustorum* albinistic varieties of, C. OLDEHAM 688.—*A. arbustorum* figs. showing variation in form, RENSCH 792.

Asperitas serpentina sp. n. Sumbawa, RENSCH Sitzber. Ges. naturf. Fr. Berl. 1933 8-10 1934 p. 448 figs. p. 449.

Bradybaena disculina sp. n. (type Senck. Mus.) Szytschuan China, HAAS Senckenbergiana Frankfurt 15 5-6 1933 p. 314 fig. 5.—*B. controversa* sp. n. p. 10 pl. ii f. 3a, b; *B. c. monotaeniata* mut. n. p. 10 pl. ii f. 4-4b; *B. carphochroa reversa* mut. n. p. 11 pl. ii f. 2a, b; *B. haplozona laevior* subsp. n. p. 11 p. i f. 5a-b; *B. (Trichocathaica) lyonsae comosa* subsp. n. p. 11 pl. iv f. 4-5; *B. (T.) rugosobasis* sp. n. p. 12 pl. iv f. 6-6c, 7 China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934.—*B. sueshanensis* sp. n. Hsueshan China, PILSBRY Proc. Acad. Nat. Sc. Philad. 86 1934 p. 9 pl. i f. 1-3.—*B. similis stimpsoni* (Pfeiffer) self-fertilization of spermatozoa, IKEDA & EMURA 440.

Bulimus in Korea and Manchuria figs., SHIBA 869.

Campylaea, GRAZIADEI 362.

Candidula unifasciata figs., URBANSKI 987.

Cathaica constantiae restita subsp. n. p. 15 pl. iii f. 5-7; *radiata* p. 15 pl. iii f. 1a, b; *ottoi* p. 16 pl. iii f. 2-3b; *C.*

(*Laeocathaica*) *dolani* p. 16 pl. iii f. 4-4c, spp. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.

Cepaea hortensis, ADAM 7.—*C. vindobonensis*, AMBROJEVICI 28.—*C. hortensis* glands figs., FILHOL 268.—*C. nemoralis*, FISHER & DIVER 285.—*C. nemoralis, hortensis*, food and plant association, FROMMING 299.—*C. vindobonensis*, URBANSKI 987.

†*Chalepotaxis minutus* sp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 267 [167] figs.

Chilostoma cornea glands figs., FILHOL 268.

Chloritis vide subgen. n. *Trachychloritis*, HAAS.—*C. argillacea* figs., TOVM 968.

Cochlicella barbara, QUICK 769.—*C. acuta* Müll. figs., RODE 802.

Discus shimekii Pils., H. B. B[AKER] 69.

Epiphragmophora (*Epiphragmophora*) *pilsbryi* Columbia S. Amer. sp. n., HAAS Senckenbergiana Frankfurt 16 2-3 1934 p. 95 f. 6-10.

Eremina desertorum, hasselquisti, zitteli ecology and variation, KALTENBACH 466.

Euhadra sadoensis genitalia of figs., EMURA 251.

Eulota (*Eulota*) *pseudo-phaeozona* sp. n. China, PING & YEN Sci. Quat. Nat. Univ. Peking 3 3 1932 p. 127 fig. 1.

†*Eulota* (*Eulota*) *zeni* p. 268 [168]; *E. (Cathaica) placenta* p. 272 [172] spp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 figs.

Euparypha pisana, pisanella, alboranensis, hierophanta, geminata, grasseti, ustulata = *macandrewiana, impugnata, subgeminata* vars. of *pisana* from Canaries and Madeira, GERMAIN 326.

Fruticicola cobresiana, HÄSLEIN 394.—*F. villosula, bielzi bakowski*, figs., POLINSKI 751.

Glomerata subgen. n. of *Papuina* type *P. migratoria* (Pfr.), I. RENSCH Arch. Naturgesch. Leipzig N.F. 3 1934 p. 486.

Goniodiscus ruderatus, RENSCH & JAECKEL 793.

Helicella (*Jacosta*) *syrensis carinata-globosa* subsp. n. Cyprus, HAAS Senkenbergiana 16 1 1934 p. 18 f. 1-4.—*H. vulgarissima* (Schlābi) mss., *H. herbicola* (Shutt.) mss. p. 6, *H. candiota* (Friv.) mss. p. 8 spp. n., HESSE Zoologica 33 1 1934 p. 3.—*H. (Candidula) soosiana* sp. n. Hungary figs. of reproductive organs and shells, J. WAGNER Állat. Kozlem. Budapest 30 3-4 1933 p. 152 figs.—*H. geyeri* (Soós), FORCART 288.—*H. (Xerocincta) neglecta* Drap., GERMAIN 329.—*H. cremai* fig., HESSE 414.—anatomy and systematics of palaearctic *H.* figs., HESSE 415.—*H. obvia*, ROTARIDES 809.—*H. itala* L., SCHLES 843.—*H. ericetorum* SCHMID 845.—*H. striata* figs., TOVIM 968.—*H. cricetorum* figs., URBANSKI 987.—*H. cretica-cauta*, *didyma* genitalia figs., WERNER 1033.

Helicidae calcicole, calcifuge, preferring lime and indifferent (British species), BOYCOTT 124.—Helicidae of Gran Paradiso, GAMBETTA 309.—Helicidae nervous systems figs., KRULL 508.—Helicidae abundance of shells at Akasaka Japan, KURODA 524.

Helicigona (*Campylaea*) *gadli* pp. 200, 208 fig. 10; *H. (C.) orbis* pp. 200, 209 fig. 11; *H. (H.) wenzii* pp. 201, 209 fig. 12, spp. n. Öcs, Soós Állat. Kozlem. Budapest 31 3-4 1934.—*H. (Kosicia) pelissae* fig. 8; *H. (K.) gracilentia* fig. 9, spp. n. Öcs, Soós Állat. Kozlem. Budapest 31 3-4 1934 pp. 199, 207, 208.—*Helicigona* anatomy and systematics of palaearctic *H.* figs., HESSE 415.—*H. rosmässleri*, *lapicida*, *aethiops petrii*, figs., POLINSKI 751.—*H. cyclolabris* genitalia figs., WERNER 1033.

†*Helicigona episcopalis* sp. n. (near *intermedia* Fér.) Pliocene Transylvania, Soós Állat. Kozlem. Budapest 29 1-2 1932 p. 69 figs.

Helicostyla leopardus meladryas, subsp. n. Calangasan Catanduanes Philippines, MCGINTY Nautilus 48 2 1934 p. 68.

Helminthoglypta carruthersi sp. n. Sierra Nevada California, WILLETT Bull. S. Calif. Acad. Sci. 33 2 1934 pp. 57, 58 figs.

†*Helminthoglypta* ? *stocki* sp. n. Eocene California, HANNA J. Wash. Acad. Sci. 24 12 1934 p. 539 f. 1-3a.

Helix pomatia reactions of ventricle, ARGAUD & MOUGEOT 42.—*H. pomatia* catabolism, BALDWIN & NEEDHAM 70.

—Technique re centrifuging spermatocytes, BEAMS, MULIYIL & GATENBY 78.—*Helix virgata, itala, cartusiana, obvoluta, pomatia, caperata, herpensis, barbara, cantiana, striolata, aspersa, pisana, rotundata, granulata, fusca, lamellata, arbustorum, rupestris, hispida, aculeata, lapicida, nemoralis, hortensis* habitats, BOYCOTT 124.—*H. nemoralis* colour variation in new colony Virginia, S. T. & B. W. BROOKS 130.—*H. aspersa* aestivation in winter and artificial, figs., FILHOL 264.—*H. aspersa* glands figs., FILHOL 268.—*H. pomatia* food, plant association, FROMMING 299.—*H. aspersa* technique of tissue culture, GATENBY & HILL 312.—*H. aspersa* behaviour and structure of cells, in tissue cultures, GATENBY, HILL & MACDOUGALD 313.—*H. aspersa* experiments on blood of, HAUGHTON 395.—*H. pomatia, obvia, austriaca* culture experiments, J. C. HILL 419.—*H. pomatia* experiments re water contents relative to weight, HOWES & WELLS 435.—*H. pomatia*, KRÜGER 507.—*H. pomatia*, MAY 609.—*H. pomatia* nutritive value, MORETTI 649.—*H. aspersa*, OLDHAM 687.—*H. pomatia*, pearl, PIERSANTI 729.—*H. pomatia, nemoralis, fruticum, cingulata, planospira*, fig., experiments and abnormalities, PIERSANTI 730.—*H. lutescens* fig., POLINSKI 751.—*H. pomatia*, POSTMA 754.—*H. labiosa* Müll., SCHLES 843.—*H. (Tachea) nemoralis*, SEMICHON 861.—*H. pisana* white diaphanous form at Vazon Guernsey, TOMLIN 965.—*H. pomatia*, TÜRK-MEININGEN 979.—*H. pomatia*, VOINOV 1009.—*H. pomatia* fig. stylommatophore, WÄCHTLER 1011.

Iberus (*Iberus*) *gualtierianus posthumus* subsp. n. pp. 96, 97, 98 f. 14-16 (*H. alonensis* Fér. Rossm.), HAAS Senkenbergiana 16 2-3 1934.

Isognomostoma isognomostoma, BOETTGER 110; fig., URBANSKI 987.

Landouria politocostata sp. n. Sumatra, B. RENSCH Archiv. f. Moll. 66 6 1934 p. 332 pl. xiv f. 2a, b.

Leucochroa candidissima, GERMAIN 329.

Martha instabilis jachnoi, cereoflava podolica, figs., POLINSKI 751.

Megalacron subgen. n. of *Papuina* type *Helix novaegeorgiensis* Cox, I. RENSCH Arch. Naturgesch. Leipzig N.F. 3 1934 p. 487.

Metafruticicola proclivis genitalia figs., WERNER 1033.

Micrarionta rowelli mexicana p. 67; *M. r. bakerensis* near Baker, California p. 68, subsp. n., San Francisco Mts., Sonora Mexico, PILSBRY & LOWE Nautilus 48 2 1934.

Monacha (Monacha) lörentheyi sp. n. Őcs, Soós Állat. Kozlem. Budapest 31 3-4 1934 pp. 198, 207 fig. 7.—*M. bidens*, HASLEIN 394.—*M. dibothrion* fig., POLIŃSKI 751.—*M. carthusiana* abnormal, figs., URBANSKI 986.

Monadenia hillebrandi, A. G. SMITH 878.

Nesiberus subgen. n. of *Iberus* Montf. type *Helix (Archelix?) pythiusensis* Bofill and Aguilar-Amat, HAAS Archiv. f. Moll. 66 6 1934 p. 354.

Obba grandis marivelesensis subsp. n. p. 320 f. 4-6; *listeri mayae* subsp. n. p. 321 f. 7-9; *listeri cabrasensis* subsp. n. p. 322 f. 1-3, BARTSCH J. Wash. Acad. Sci. 24 7 1934.

Oreohelix strigosa goniogyra p. 385 pl. xiv f. 12-16; *s. delicata* p. 386 pl. xiv f. 17-24, subsp. n.; *O. amariradix* p. 394; *O. junii* p. 397 pl. xv f. 7, 7a, 8 spp. n., U.S.A., PILSBRY Proc. Acad. Nat. Sci. Philad. 85 1934.

Otala (Dupotetia) tigri surrodonta, BOETTGER 110.

Papuina lombei ruatomensis, l. *likirensis*, l. *mahurensis*, l. *anirensis* vars. n. Bismarck Archipelago, I. RENSCH Arch. Naturgesch. Leipzig N.F. 108 1934 pp. 450, 451.—*P. eros applanata*, *P. (Crystallopsis) tricolor santa-annae* vars. n. Solomon Islands, I. & R. RENSCH SitzBer. Ges. naturf. Fr. Berlin 1933 8-10 1934 p. 453.—*P. phaeostoma medinensis*, *p. lamossongensis*, *p. kandanensis*, vars. n. Bismarck Archipelago, I. RENSCH Arch. Naturgesch. Leipzig N.F. 108 1934 pp. 455, 456 figs.—*P. wiegmanni disjuncta*, *w. conjuncta*, vars. n. Bismarck Archipelago, I. RENSCH Arch. Naturgesch. Leipzig N.F. 108 1934 p. 475 figs.—*P. novaegeorgiensis creta* var. n. Bismarck Archipelago, I. RENSCH Arch. Naturgesch. Leipzig N.F. 108 1934 p. 480.—*P. chancei* (Cox) fig. showing variation in form, RENSCH 792.

Planispira (Trachia) gabata atjehensis nov. Sumatra, B. RENSCH Archiv f. Moll. 66 6 1934 p. 331 pl. xiv f. 3a, b.—*P. vide Pseudopapuina* subgen. n., HAAS.

Platypetatus lancastrae Gude fig., *P. trochomorpha wentschuanensis* Blume, fig., HAAS 379.

Plectotropis (?) sinkaitzensis p. 12 pl. iv f. 2-2c; *icela* p. 13 pl. iv f. 1-1c; *minima* p. 13 pl. iv f. 8a, b, spp. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.

Pleurodonte rostrata, ANDREWS 31.

Polygyra monodon, *thyroides* sinistral specimens from Michigan, ARCHER 38.—*P. tridentata*, t. *juxtidentis*, t. *tennesseensis*, t. *complanata*, t. *edentilabris*, *fraudulenta*, *fallax*, f. *goniosoma*, *vannostrandii*, v. *alabamensis*, *hopetonensis*, h. *charlestonensis*, h. *obsoleta*, ARCHER 39.—*P. fraudulenta* Pils., *fallax* Say, f. *goniosoma* Pils., *vannostrandii* (Bland), v. *alabamensis* Pils., *hopetonensis* (Shutt.), h. *charlestonensis* Maz., h. *obsoleta* Pils., figs., ARCHER 40.—*P. inflecta* (Say), ARCHER 41.—*P. profunda*, *P. p. pleistocenica*, variation and distribution in Illinois, F. C. BAKER 58.—*P. profunda* variation, BAKER 65.—*P. chemical* contents, DAVIS, KELLY & BACHTER 216.—*P. pennsylvanica*, *thyroides* shell injuries, FOSTER 291.—*P. hirsuta*, GIOVANNOLI 336.

†*Polygyra profunda* Say variation and distribution in Illinois, F. C. BAKER 58.—*Polygyra*, FAIRBAIRN 258.

Polymita picta restoration of shell parts, ANDREWS 32.

Pseudaspasita supranodata sp. n. Hupé, China, HAAS Zool. Anz. Leipzig 108 1934 p. 203 f. 5.

Pseudopapuina subgen. n. of *Planispira* for *peculiaris* sp. n. Sjerak Id. Tenimber Group, HAAS Zool. Anz. Leipzig 108 1934 p. 202 f. 1, 2.

Pulmonata of Japan, List of the, KURODA 523.

Solaropsis trigonostoma sp. n. Brazil, HAAS Senckenbergiana 16 2-3 1934 p. 94 f. 1-5.

Sphincterochila (Leucochroa) candidissima, TOVIM 968.

Tachea nemoralis embryology, figs., MONNÉ 637.

Thalassohelix translucens sp. n. Lilly Pilly Gully National Park, Wilson's Promontory Victoria, GABRIEL Mem. Nat. Mus. Melbourne 8 1934 p. 157 pl. xviii f. 1-3.

Trachychloritis subgen. n. of *Chloritis* for *verrucosa* sp. n. Sjerak Id. Tenimber Group, HAAS Zool. Anz. Leipzig 108 1934 p. 202 f. 3, 4.

Urguessella congenita f. 20, *planata* f. 21 spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 295.

Xerophila (*Polytrichia*) *hoggarensis* fig., PALLARY 705.

Zachrysia (*Chrysius*) *provisoria lowei* subsp. n. Cuba, AGUAYO Mem. Soc. cubana Hist. nat. 8 2 1934 p. 93.

Zenobiella (*Monachoides*) *vicina* figs., URBANSKI 987.

ENDODONTIDAE.

Afropunctum mermodi gen. et sp. n. (Endodontidae) Belgian Congo, F. HAAS Zool. Anz. Leipzig 107 1934 p. 221 f. 1.

Allodiscus stewartensis sp. n. Stewart Id., Pacific., DAVID Senckenbergiana Frankfurt 16 2-3 1934 pp. 129, 131 f. 5.

Chalcocystis subgen. n. of *Trachycystis*, type *Helix aenea* KRSS., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150, 169 pl. xx f. 17-19.

Chilocystis subgen. n. of *Trachycystis* type *Helix* (*Pella*) *lygaea*, M. & P. WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 174 pl. xxi f. 27, 28.

Cyclocystis subgen. n. of *Trachycystis*, type *Helix charybdis* Bens., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 167 pl. xx f. 14-16, pl. xxi f. 40.

Helenopachnodus, GERMAIN 327.

Liparocystis subgen. n. of *Trachycystis* type *Zingis delicata*, M. & P. WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 182 pl. xxi f. 37-39.

Lyrocystis subgen. n. of *Trachycystis* type *Helix cosmia* Pfr., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 170 pl. xx f. 20, 21.

Paulocystis subgen. n. of *Trachycystis* type *Helix aulacophora* Ancey, WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 171 pl. xx f. 22, 23.

Punctum pygmaeum habitats, BOYCOTT 124.—*P.* (*Toltecica*) *jaliscoense* fig. stylommatophore, WÄCHTLER 1011.

†*Pyramidula* (*Patulastra*) *grabqui* p. 263 [163]; *gracilis* 265 [165] spp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 figs.

Rotadiscus hermanni fig. stylommatophore, WÄCHTLER 1011.

Thysanophora (*Microconus*) *palaeosa* fig. stylommatophore, WÄCHTLER 1011.

Trachycystis koptawcliensis, *monotropa* spp. n. Mt. Elgon Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 3 1934 p. 269.—*Trachycystis*, WATSON 1027.

Xerocystis subgen. n. of *Trachycystis*, type *Helix capensis* Pfr., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150 178 pl. xxi f. 29-31.

ORTHALICIDAE, BULIMULIDAE, UROCOPTIDAE.

Bulimulidae, WITTMANN 1045.

Chersina Beck 1837 = *Liguus* Montf., PILSBRY 736.

Drymaeus pilsbryi sp. n. Barro Colorado Island, Panama Canal Zone, ZETEK Nautilus Philad. 47 3 1934 p. 93 pl. xiii f. 1.

Liguus fasciatus viridis, f. *archeri*, f. *achatinus*, f. *feriai*, f. *aguayoi*, f. *angelae*, f. *goodrichi*, f. *helianthus*, f. *xanthus*, f. *torrei*, f. *mcgintyi*, f. *pinarensis*, f. *blainianus fairchildi*, f. *flammellus flammellus*, f. *cervus*, f. *carbonarius*, f. *bermudezi*, f. *cubensis*, f. *organensis*, subspp. n. Cuba, CLENCH Occ. Pap. Boston Soc. Nat. Hist. 8 1934 pp. 101-124 pls. v-vii.—*L. solidus dohertyi* subsp. n. Florida, PFLUEGER Nautilus Philad. 47 4 1934 p. 121 pl. xiii f. 2, 3.—*L. crenatus*, *fasciatus*, DE BOE 217.

Placostylus paravicinianus p. 451; *unicus* p. 452, spp. n.; *cleryi fraterculus*, *sanchristovalensis vicinus*; s. *kirakiraensis vars.* n. p. 452; *P. miltocheilus manugiensis*, m. *paravicinii vars.* n. p. 453, Solomon Ids., I. & B. RENSCH SitzBer. Ges. naturf. Fr. Berlin 1933 8-10 1934.

Urocoptis creola nom. nov. for *Cylindrella producta* "Gundl." Pfr. 1857 non *C. lata producta* C. B. AD. 1851, p. 94; *U. camagueyana holguinensis* subsp. n. p. 95 f. 5 Cuba, AGUAYO Mem. Soc. cubana Hist. nat. 8 2 1934.

**OLEACINIDAE, STREPTAXIDAE,
TESTACELLIDAE, RHYTIDIDAE.**

Afristreptaxis aethiopicus p. 287 f. 2, 2a; *A. abessinicus* p. 288 f. 3 spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Afrorhytida, WATSON 1027.

†*Artemon alminoaffonsicum* sp. n. Pleistocene Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934 p. 169 pl. xvii f. 1, 2, 3.

Capitina subgen. n. of *Natalina*, type *Helix schärfiae* Pfr., WATSON Proc. Malac. Soc. London 21 3 1934 p. 153 pl. xix f. 1-4.

Digulella sect. n. of *Gulella* Pfr. type *Pupa capitata* Gould, HAAS Archiv. f. Moll. 66 6 1934 pp. 355-6.

Gulella (*Paucidentina*) *simplex* p. 372 f. 3; *G. trifolium* p. 373 f. 4; *G. (Tortigulella) bequaerti* p. 375 f. 5; *G. (Molarella) phalanga* p. 376 f. 6; *G. suturalis* p. 377 f. 7, spp. n. Liberia, DEGNER Rev. zool. bot. afr. Tervueren 24 1934.—*G. styloidea* p. 250 f. 26; *cyclochilus* p. 251 f. 27; *lambda* p. 252 f. 28; *stolidodea* p. 255 f. 30; *angustespirstata* p. 256 f. 31; *G. (Costigulella) hedwigiae* p. 257 f. 32; *G. (Molarella) kemblei* p. 266 f. 39-40; *incisa* p. 269 f. 41, spp. n.; *G. opoboensis liberiana* p. 253 f. 29; *G. (Paucidentina) arthuri eximia* p. 261 f. 34; *a. cardiostoma* p. 263 f. 35, vars. n., West Africa, DEGNER Zool. Jahrb. Jena (Syst.) 65 1934.—*G. (Platigulella) helichrysophila* Mt. Elgon; *G. (Conogulella) argyromontana* Mt. Elgon; *G. (C.) arambourgi* Mt. Elgon; *G. (Paucidentata) albogilva* New Moschi; *G. (P.) seneciophila* nr. Mt. Kinangop; *G. (P.) cacosyotata* Mt. Elgon; *G. (P.) lautiuscula* Mt. Elgon; *G. (P.) cheranganiensis* Camp Cherangani, spp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 3 1934 pp. 264-267.—*G. aethiopica* f. 8; *abessinica* f. 9, spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Berlin 1933 4-7 p. 289.—*G. irritans* f. 58; *biparietalis* f. 59, spp. n. p. 315; *togoensis* f. 60; *G. (Avakubia) acuminata* f. 61, spp. n. p. 316, West Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Hyperrhytida sec. nov. of *Afrorhytida*, type *Helix (Aerope) trimeni* M. & P., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150, 156.

Lamelliger maassi sp. n. West Africa, DEGNER Zool. Jahrb. Jena (Syst.) 65 1934 p. 224 fig. 11.

Nata gen. n. of Paryphantidae, type *Natalina tarachodes* Conn., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150, 158 pl. xix f. 6-9.

Natalina, WATSON 1027.

Natella sec. n. of *Nata* [q.v.], type *Helix (Patula) viridescens* M. & P., WATSON Proc. Malac. Soc. London 21 3 1934 pp. 150, 160.

Ptychotrema (*Pt.*) *liberianum* sp. n. Liberia, DEGNER Rev. zool. bot. afr. Tervueren 24 1934 p. 370 f. 2.—*Ptychotrema* (*Pt.*) *deruptum* sp. n. West Africa, DEGNER Zool. Jahrb. Jena (Syst.) 65 1934 p. 236 f. 18, 19.—*Ptychotrema* (*Parennea*) *subtusangulatum* sp. n. West Africa, DEGNER Zool. Jahrb. Jena (Syst.) 65 1934 p. 244 f. 23.—*Ptychotrema* (*Ennea*) *superadornata* sp. n. Mt. Elgon Equat. Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 3 1934 p. 263.—*Ptychotrema tumidulum* sp. n. Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 317 f. 62.—*Ptychotrema gratum* f. 4; *P. (Ennea) laeve* f. 5; *P. (E.) hyalinum* f. 6, spp. n. p. 288; *P. (E.) massauense* f. 7 sp. n. p. 289, Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berl. 1933 4-7.

Stenomarconia subgen. n. (of *Marconia*) p. 262, type *M. (S.) jeanneli* sp. n. p. 263 Kenya, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 3 1934.

Streptostele jeanneli Mt. Elgon; *S. charanganiensis* Camp Charangani; *S. arambourgi* Mt. Elgon, spp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 3 1934 pp. 268, 269.—*S. buchholzi* fig. stylommatophore, WÄCHTLER 1011.

Tayloria grandis sp. n. E. Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 314 f. 56.—*T. jucunda* sp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 286 f. 1, 1a radula f. 12 p. 287.—*T. (Tayloria) moncieuxi* sp. n. Belgian Congo, F. HAAS Zool. Anz. Leipzig 107 1934 p. 222 f. 2.

**PUPILLIDAE, ENIDAE,
CLAUSILIIDAE, CERIONIDAE,
ACHATINIDAE, STENOGRYRIDAE,
HELICTERIDAE.**

Acanthinula harpa Say in Central Siberia, MOZLEY 653.

Achatina afromontana sp. n. p. 269 pl. i f. 2, 12 Uganda; *A. (Pintoa) dewittei* sp. n. p. 270 pl. i f. 4, 8 Belgian Congo; *A. (P.) brooksi* sp. n. p. 271 pl. i f. 3, 7 Angola, BEQUAERT & CLENCH Rev. zool. bot. afr. Tervueren 24 1934.—*A. rugosa* Putzeys, *A. rugosa chapini* subsp. n. W. Africa, BEQUAERT & CLENCH Amer. Mus. Nov. 705 p. 4 f. 2, *A. bandeirana* Morelet, *A. balteata* Reeve, *A. b. infusca* E. v. Marts., *A. iostoma* Pfr., *A. hessei* C. R. Boettger, figs., BEQUAERT & CLENCH Amer. Mus. Nov. 705 1934.—*A. fulica*, JUTTING 463.

Albinaria mitylena Albers figs., WERNER 1033.

Archachatina neumanni sp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 296 f. 22, 22a.

†*Artemon alminoaffonsicum* sp. n. Pleistocene S.W. of Patú N.E. Brazil, MAURY Bull. Amer. Mus. N.H. 67 1934 (4) p. 169 pl. xvii f. 1-3.

Azeca tridens habitats, BOYCOTT 124.

Balea perversa habitats, BOYCOTT 124.—*B. perversa* figs., POLINSKI 751.

Bocageia (Liobocageia) jeanneli sp. n. Equatorial Africa, GERMAIN Bull. Mus. hist. nat. Paris (2) 6 4 1934 p. 397.—*Bocageia (Liobocageia) bukaensis* f. 43, 43a, *B. (L.) aethiopica* f. 44, 44a, spp. n. p. 307 Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Bothriopupa peruviana sp. n. Peru, PILSBRY Man. Conch. 28 111 June 14, 1934.

Buliminus grabarui p. 143 fig. 8, *tingi* p. 145 fig. 9, *coniformis* p. 148 fig. 10 spp. n. China, PING & YEN Sci. Quart. Nat. Univ. Peking 3 3 1932.

†*Buliminus anocampus diminutus* var. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 275 [175] figs.

Caeciloides acicula figs. stylommato-phores, WÄCHTLER 1011.

Cavipupa subgen. n. (of *Gastrocopta*) type *G. euryomphala* sp. n. (q.v.), PILSBRY Man. Conch. 28 111 p. 120 June 14, 1934.

Ceras zenkeri p. 320 f. 73, 73a; *C. matumbianum* p. 321 f. 74, 74a, spp. n. Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Cerastus plicatus f. 46, 46a; *regalis* f. 47 spp. n. p. 309; *inflatus* f. 48; *albidus* f. 49; *kellaensis* f. 50 spp. n. p. 310; *corneus* f. 51; *stilifer* f. 52; *elatus* f. 53, spp. n. p. 311; *altus* f. 53 sp. n. p. 312 Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Cerion (Strophiope) greenwayi sp. n. (regina group) West Booby Bahamas p. 206 pl. ii f. H; *C. (S.) paucicostatum* sp. n. (gubernatorium group) Southern Eleuthera Id., Bahamas p. 209 pl. ii f. E; *C. p. indianorum* var. n. Eleuthera Id. p. 210 pl. ii f. F; *C. (S.) melanostomum* sp. n. (group uncertain) sp. n. Long Id., Bahamas p. 212 pl. ii f. A, C; *C. (S.) periculosum* sp. n. (glans group) p. 215 pl. ii f. B, CLENCH Pr. Boston Soc. Nat. Hist. 40 2 1934.—*C. ramsdeni* sp. n. p. 105 pl. xi f. 1a-e; *C. r. portilioni* p. 105 pl. xi f. 2; *r. turgidum* p. 106 pl. xi f. 3a-d subsp. n. Cuba, WELCH Nautilus Philad. 47 3 1934.—*C. melanostomum*, *periculosum*, *lenticinosum*, *paucicostatum*, *p. indianorum*, *barbouri*, *greenwayi*, *oweni* figs., CLENCH 163.

Clausilia rugosa, *cravenensis*, habitats BOYCOTT 124.—*C. (Kuzmicia) pumila* Soós 884.—*C. (Cl.) pumila* figs., URBANSKI 987.

Clausiliidae, BOYCOTT 124.—Clausiliidae of Gran Paradiso, GAMBETTA 309.

Cochlicopa lubrica habitats, BOYCOTT 124.

†*Cochlicopa youngi* Quaternary sp. n. N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 285 [185].

Curvella aethiopica sp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7 p. 308 f. 45.

Delima fulcrata niethermeri var. nov. Gargano, Italy, RENSCH SitzBer. Ges. naturf. Fr. Berl. 1934 4-7 p. 168 fig. 2.—*D. bengasiana* fig., HESSE 414.—*D. conspurcata* abnormal, fig., URBANSKI 986.

Dolichena subgen. n. of *Ena*, with type *E. miranda* sp. n. p. 24 pl. v f. 7a, b, 8 China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.

Ena (Heudiella?) phaedusoides krejci "n. sp." [? var. n.] Szytschuan China, HAAS Senckenbergiana Frankfurt 15 5-6 1933 p. 320 f. 11.—*E. (Mirus) krejci* sp. n. Szytschuan China, HAAS

Senckenbergiana Frankfurt 15 5-6 1933 p. 319 f. 7, 7a.—*E. (Sulzebrinus) erratica* p. 22 pl. v f. 1, 1a; *E. (Mirus) notha* p. 22 pl. v f. 4, 4a; *E. (Petræomastus) rumichangensis* p. 23 pl. v f. 3, 3a; *E. (Holcauchen) brookedolani* p. 23 pl. v f. 5-6a, spp. n. China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.—*E. obscura, montana* habitats, BOYCOTT 124.

Enidae, BOYCOTT 124.

Eua globosa gen. et sp. n. Partulidae Tonga, PILSBRY & COOKE Occ. Pap. Bishop Mus. Honolulu 10 14 1934 p. 4 f. 1-3.

Euonyma monotropha, koitobboensis spp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 379.

Ferussacia folliculus figs. stylomatophore, WÄCHTER 1011.

Gastrocopta pilsbryana amissidens subsp. n. Arizona and New Mexico p. 118 pl. xxiv f. 5, 6; *G. euryomphala* sp. n. [vide *Cavipupa*] Bintuan Philippine Ids. p. 120 pl. xxii f. 3-6, PILSBRY Man. Conch. 28 111 June 14, 1934.—*G. jeanneli* sp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 381.

Heudeana murina Hde. figs., HAAS 379.

Homorus laevis f. 28; *conformis* f. 29 29a; *dalbaensis* f. 30, 30a spp. n. p. 302; *kaffaensis* f. 31, 31a; *djimaensis* f. 32, 32a; *nitens* f. 33 spp. n. p. 303; *maurus* f. 34; *fragilis* f. 35, 35a; *cerinus* f. 36, 36a, spp. n. p. 304; *discretus* f. 37; *H. (Nothapalus) cylindricus* f. 38, 38a; *H. (N.) spretus* f. 39, 39a spp. n. p. 305; *H. (N.) similis* f. 40, 40a; *H. (N.) perspicuus* f. 41, 41a; *abessiniensis* f. 42, 42a; *H. (Ethiopia) abessinicus* f. 42b, spp. n. p. 306 Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Iphigena plicatula nana, HÄSLEIN 394.

Jaminia tridens eximia, HÄSLEIN 394.

Lacinaria biplicata forsteriana, cana, HÄSLEIN 394.—*L. (Alinda) biplicata* abnormal figs., URBANSKI 986.—*L. (Strigilecula) cana* figs., URBANSKI 987.

Lamellidea of Makatea, COOKE 182.

Lauria bequaerti sp. n. Belgian Congo, p. 138 pl. xxiv f. 12, 13, 14; *L. zonifera*

nom. nov. for *Pupa zonata* Boettger 1883 non Gassies 1869, PILSBRY Man. Conch. 28 111 p. 139 June 14, 1934.—*L. alluaudi* sp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 382.

Leptocala mollicella, m. petitia, grandidieriana, loveridgei, BEQUAERT & CLENCH 88.

Leucochiloides haggarensis fig., PAL-LARY 705.

Limicolaria obtusa p. 297 f. 24; *amoena* p. 299 f. 25; *commoda* p. 300 f. 26, spp. n. Abyssinia, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.—*L. kambeul, turris*, GERMAIN 323.

†*Microstele pingi* nom. nov. for *Pupa subconica* Ping, 1929, non Sandberger 1858, PILSBRY Man. Conch. 28 111 p. 137 June 14, 1934.

Nesanassa subgen. n. of *Eua*, type *Partula zebrina* Gould, PILSBRY & COOKE Occ. Pap. Bishop Mus. Honolulu 10 14 1934 p. f. .

Nothapalus koitobbosensis sp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 378.

†*Opeas sinensis* p. 281 [181], *aksuensis* p. 282 [182], Spp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 figs.

Orcula tomlini fig., HESSE 414.—*O. dolium tatrigena* figs., POLINSKI 751.

Oxychilus lucidus, FILHOL 267.

Partula carteriensis figs., TOVIM 968.

Phaedusa pseudobensoni continua subsp. n. p. 17, *P. szechuanensis* sp. n. p. 17 pl. v f. 9-10a China, PILSBRY Proc. Acad. Nat. Sci. Philad. 86 1934.—*P. (Euphaedusa) aculus anceyi* (Bttrg.) fig. 6, 6a, HAAS 379.

Prosopaeas obelisciforme sp. n. Nias Id. Sumatra, JUTTING Misc. zool. Sumatra 84-85 1934 p. 12 f. 9-10.

Pseudopeas subcurvelliiformis, koptawelilensis spp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 380.

Pupa anglica, umbilicata, habitats, BOYCOTT 124.

Pupidae [Pupillidae] of Gran Paradiso, GAMBETTA 308.

Pupilla triplicata, HÄSLEIN 394.—*P. cupa* figs., POLINSKI 751.

Pupillidae, BOYCOTT 124.—Pupillidae of Makatea, COOKE 182.—Pupillidae geographical distribution, PILSBRY 731.

Pupisoma galapagorum Chatham Is., Galapagos p. 114 pl. xvi f. 7, 8, 9; *P. bailyi* Cuernavaca Mexico p. 116 pl. xxiv f. 15, spp. n., PILSBRY Man. Conch. 28 111 June 14, 1934.—*P. mediamericanum* fig. stylommatophore, WÄCHTLER 1011.

Pupoides (*Pupoides*) *coenopictus* Hutton, *persicus* subsp. n. Kerman Persia, SCHLESCH Archiv f. Moll. 66 1 p. 45 pl. v f. 5a-b.

Rumina decollata figs., RENSCH 790.—*R. decollata* L. in U.S.A., CHEATUM 148.

Samoana cramptoni sp. n. Tonga, PILSBRY & COOKE Occ. Pap. Bishop Mus. Honolulu 10 14 1934 p. 8 f. 4.

Semilimax vide *Vitrina*, BOETTGER 114.

Stenogyra, BOUTAN 123.—*S. decollata* fig. stylommatophore, WÄCHTLER 1011.

Subulina octona, MEER MOHR 613.

Subuliniscus arambourgi sp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 379.

Subulona camerunensis f. 66, 66a; *hintzi* f. 67, 67a; *clavaeformis* f. 68, 68a, spp. n. p. 318; *ucamica* f. 70; *togoensis* f. 71, 71a, spp. n. p. 320; *S. (Oreohomorus) banjoensis* sp. n. p. 320 f. 72, 72a, Africa, THIELE SitzBer. Ges. naturf. Fr. Berlin 1933 4-7.

Triptychia (*Triptychia*) *bavarica* sp. n. Burdigal, WENZ Arch. f. Moll. 66 1 1934 p. 55 fig.

Truncatellina flavogilva sp. n. Equatorial Africa, GERMAIN Bull. Mus. Hist. nat. Paris (2) 6 4 1934 p. 381.

†*Truncatellina pseudocylindrica* sp. n. Quarternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 278 [178] figs.

Vallonia pulchella, *excentrica*, *costata* habitats, BOYCOTT 124.—*Vallonia costata* monstr. fig. from E. Lothian, KEVAN 481.

Vertigo torrei sp. n. Cuba, AGUAYO & JAUME Mem. Soc. cubana Hist. nat. 8 1 1934 p. 11 fig.—*V. gouldii hubrichti* subsp. n. Missouri p. 99 pl. xxii f. 12, 13, 14; *V. idahoensis* sp. n. Idaho p. 100

pl. xxii f. 9, 10, 11; *V. modesta sculptilis* mut. n. Oregon p. 100 pl. xxiv f. 2, 3, 4, PILSBRY Man. Conch. 28 111 June 14, 1934.—*V. antiverigo*, *substriata*, *moulinsiana*, *pygmaea*, *alpestris*, *pusilla*, *angustior*, *edentula*, *cylindrica*, habitats, BOYCOTT 124.—*V. ronneyensis*, RENSCH & JAECKEL 793.—*V. moulinsiana*, *genesii* figs., POLINSKI 751.

†*Vertigo teilhardi* sp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 277 [177] figs.

Vitrina elongata Jhering (= *Semilimax semilimax* Fér. = *elongata* Drap.), BOETTGER 114.

Zebrina (*Styloptychus*) *amphischnus* sp. n. Szytschuan China, HAAS Senckenbergiana Frankfurt 15 5-6 1933 p. 321 f. 12, 12a.—*Z. detritus*, ROTARIDES 809.—*Z. detrita* figs., TOVIM 968.

Zootecus insularis, GERMAIN 323.—*Z. insularis* fig., PALLARY 705.

SUCCINEIDAE.

Succinea yangiensis sp. n. China, PING & YEN Sci. Quart. Nat. Univ. Peking 3 3 1932 p. 140 fig. 6.—*S. putris*, BOETTGER 114.—*S. putris*, *pfeifferi*, *oblunga*, habitats, BOYCOTT 124.—*S. putris*, *amphibia*, *pfeifferi*, MAZEK-FIALLA 612.—*S. putris* embryology figs., MONNÉ 637.—*S.* development of radula and jaw in young, H. E. QUICK 768.—*S. putris*, RAFFY & FISCHER 772.—*S. putris* figs., TOVIM 968.

†*Succinea pellucida* sp. n. Quaternary N.W. China, PING & YEN Bull. Fan Memorial Inst. Biol. Peiping 4 6 1933 p. 290 [190], figs.—*S. hopeiensis*, TOKUNAGA & NAORA 953.

Scaphopoda.

†*Dentalium arctoides* p. 42; *D. a. multicosata* p. 43; *D. gallensteinii* p. 43; *D. herritschi*, *kahleri* p. 44; *D. schafferi* p. 45, spp. et var. n. Launsdorf Cretaceous, GUGENBERGER SitzBer. Akad. Wiss. Wien (I) 143 1-2 1933.—*D. anisicum* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 32 pl. i f. 7-10.

Eudentalium, PILSBRY 735.

Scaphopoda of Atlantic Coast from Labrador to Texas, JOHNSON 453.—King Christian IX's Land, THORSON 950.

Pelecypoda or Lamellibranchia.

Lamellibranchiata Denmark, JENSEN & SPÆRCK 455.

PROTOBRANCHIA.

Acila divaricata "subsp. n.," SCHENCK 832.

Brevinucula subgen. n. of *Nucula*, type *N. (B.) guineensis* Thiele, THIELE Handb. Syst. Weicht. (3) 1934 p. 786 fig. 788.

†*Ctenodonta nipponica* p. 345 pl. iii f. 1-3, pl. iv f. 16; *nasutaformis* p. 346 pl. iv f. 13-15; *dotenensis* p. 347 pl. iv f. 18; *coreanica* p. 347 pl. iii f. 16-17, pl. iv f. 17 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.—*C. bilunata bilunata* var. n. p. 226, b. *perdentata* var. n. p. 227; *C. (Palaeoneilo) magna* sp. n. p. 231 Silurian Europe, PFAB Palaeontographica Stuttgart 80 4-6 1934 pl. ii.

Leda sulcata mantle anatomy figs., HAAS 377.

†*Leda bhamdunensis* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 209 pl. x f. 58.

†*Ledopsis barroisi* sp. n. Silurian England, F. R. C. REED Quart. J. Geol. Soc. London 90 4 1934 p. 580 pl. xx f. 9, 10.

†*Microyoldia regularis* in Perthshire, DAVIDSON 214.

Nucula nitida, nucleus, tenuis distribution in N. Sea, STEPHEN 902.

†*Nucula mayeri minor* var. n. p. 65 pl. vi [ii] f. 35; *N. placentina subglobosa* var. n. p. 65 pl. vi [ii] f. 36, 37 Neogene Italy, VENZO Palaeontogr. ital. Siena 34 (1933) 1934.—*Nucula ? lipoensis* sp. n. Permian China, GRABAU Palaeont. sinica B8 3 1934 152 pl. xi f. 3.—*N. cancellata*, KUMAR & PICHAMUTHU 517.

†*Nuculana insignis* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 189 pl. xxix (vii) f. 10-12.—*N. vajampolkana* "sp. n." [nom. nud.], SŁODKEVIČ 877.—*N. angulatostrata* Cretaceous Spitzbergen f. 14, WEIR 1028.

Nuculidae figs.; classification, SCHENCK 832.

†Nuculidae, PFAB 721.

†*Nuculites suboblongatus* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 351 pl. iv f. 20.

Portlandia-arctica community, THORSON 949.

†*Portlandia persei* sp. n. Pliocene Barentsmeeres, MESSJATZEV Trans. Oceanogr. Inst. Moscow 1 1 1931 p. 42.

†*Praeleda* gen. n. (Nuculidae) type *P. compar* (Barr.) pp. 231, 232; *P. pulchra* sp. n. p. 234 pl. iii f. 6 Silurian Europe, PFAB Palaeontographica Stuttgart 80 4-6 1934.

†*Praenucula* gen. n. (Nuculidae) p. 234 type *P. dispar expansa* var. n. p. 235 pl. iii f. 10, 11, 15a, b; *P. d. dispar* var. n. p. 235 Silurian Europe. PFAB Palaeontographica Stuttgart 80 4-6 1934.

†*Pseudocyrtodonta* gen. n. (Nuculidae) type *P. ala* (Barr.) Silurian Europe, PFAB Palaeontographica Stuttgart 80 4-6 1934 pp. 236, 237 pl. iii f. 13.

Yoldia kuluntunensis, convexa "spp. n.," SŁODKEVIČ 877.

†*Yoldia alta, convexa, longissima, nitida, pennulata*, "spp. n." [nomm. nud.], SŁODKEVIČ 877.

FILIBRANCHIA.**ANOMIACEA.**

Anomia ephippium on *Cerithium rupestre*, P. H. FISCHER 270.

Diploschiza Conrad (1866) neotype selected, STEPHENSON 903.

Monia ione, ALLAN 21.

ARCACEA.

Arca (Barbata) barbata, HAAS 378.—*A. occidentalis* Phil., HOPKINS 427.—*A. noae*, RAUCCI 775.—*Arca-Astarte* community, THORSON 949.—*A. lactea* in s-gen. *Trigonodesma*, WINCKWORTH 1041.

†*Arca* (?) *perradiata* sp. n. Permian Madagascar, ASTRE Ann. géol. Serv. Mines Madagascar 4 1934 p. 80 pl. ix f. 24, 26.—*Arca (Macrodon) eppingeri* p. 215 pl. x f. 71; †*Arca (Trigonoarca ?) rephaim* p. 215 pl. x f. 70 spp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934.—

A. (Barbatia) guillanioni sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 21 pl. iii f. 3, 3a, 4, 4a.—*Arca* ? *perpectinata* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 18 pl. iii f. 14, 15.—*A. (Arca) thomasi* sp. n. Quaternary and Tertiary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 165 pl. xxiv f. 11–14.—*A. (Barbatia) camurupimensis* p. 129 pl. xi f. 1; *A. (B.) mossoroensis* p. 130 pl. xi f. 2, spp. n. Cretaceous N.E. Brazil, MAURY Bull. Amer. Mus. N.H. 67 1934 (4).—*A. (Arca) kikaizimana* sp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 152 (44) pl. v (i) f. 4a, b, 5a, b.—*A. theobaldi*, KUMAR & PICHAMUTHU 517.—*A. (Scapharca) patricia* fig., TRECHMANN 971.

†*Cucullaea schweinfurthi moabitica* var. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4–6 1934 p. 216 pl. x f. 72–73.—*C. acuticarinata* p. 192 pl. xxiv (ii) f. 10–14, pl. xxx (viii) f. 5; *transversa* p. 193 pl. xxv (iii) f. 1, 3–6 spp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934.—*C. goldfussi radiata* var. n. Jurassic Germany, STOLL Abh. geol. palaeont. Inst. Greifswald 13 1934 p. 9 pl. i f. 14.

Glycymeris imperialis sp. n. Sagami Bay, Hayama, Japan, KURODA Venus 4 4 1934 pp. 201, 202 pl. iv.

†*Glycymeris loandensis* sp. n. Tertiary Loanda W. Africa, KELLER Bol. Mus. Lab. Min. Geol. Univ. Lisbon 3 1a 1934 229 pl. v f. 3a, b.—*G. (Glycymeris) fijiensis* sp. n. Miocene Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 164 pl. xxiv f. 8, 9.—*G. densilineata* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 195 pl. xxxii (x) f. 8, 9.—*G. subpectiniformis* p. 151 (43) pl. v (i) f. 2a, b; *hanzawai* p. 152 (42) pl. v (i) f. 3a, b, spp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934.—*G. imperialis*, SUSUKI 927.

†*Grammatodon nipponica* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 190 pl. xxviii (vi) f. 3.

†*Macrodon elongatum sulcatum* var. n. Jurassic Germany, STOLL Abh. geol. palaeont. Inst. Greifswald 13 1934 p. 8 pl. i f. 11a, b.

†*Opis* Corallian British, ARKELL 43.

Parallelipipedum (= *Trisidos*) *prototortuosum*, KUMAR & PICHAMUTHU 517.

Pectunculus glycymeris in a Neolithic tomb, Poland, FRIEDBERG 296.

†*Pectunculus sindiensis*, KUMAR & PICHAMUTHU 517.—*P. (Glycymeris)* cf. *acuticostatus* fig., TRECHMANN 971.

†*Pseudogrammatodon pacificus* sp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 153 (45) pl. v (i) f. 6a, b, 7a, b.

†*Trigonarca meridionalis* p. 24 pl. ii f. 1, 3, *gerhardti* p. 25 pl. vii f. 5, 6 spp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934.

†*Trigonia textilis* sp. n. Jurassic Yukon, LEES Trans. Canad. Inst. Toronto 20 1 1934 p. 37 pl. ii f. 6, 7.—*T. jakshy-saurensis* p. 187 pl. ii f. 1–3; *mangyshlakensis* p. 189 pl. i f. 1–4, pl. ii f. 4–5, spp. n. Neocomien (Cretaceous) S. Russia, LUPPOV Trav. Inst. Geol. Acad. Sci. U.R.S.S. 2 1932.—*T. baltica* nom. nov. for *T. praelonga* Loock, STOLL Abh. Geol. palaeont. Inst. Greifswald 13 1934 p. 9 pl. i f. 19.—*T. gadoisi* fig., FABIANI & RUIZ 257.—*T. daedalea*, *elisae* figs., MAILLIEUX 596.—*T. schwartzi*, SCHUCHERT 854.

MYTILACEA.

†*Actinopterinia* gen. n. (Pteriidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 214.

†*Anthracomya lenisulcata*, *modiolaris*, *pulchra*, *phillipsi*, *tenuis*, TREUMAN 974.—*Anthracomya* variation in Carboniferous of Lancashire, WRIGHT 1054.

†*Aucella subspitiensis* p. 439 pl. xiv f. 1–12, pl. xv f. 1–8; *subpallasi* p. 450 pl. xv f. 11, pl. xvi f. 1–10; *misolica* p. 454 pl. xv f. 10a, b; *motlolensis* p. 455 pl. xv f. 9a, b, spp. n. Jurassic East Indies, KRUMBECK N. Jahrb. Geol. Paläont. Stuttgart 71 3 1934.

†*Aucellina gryphaeoides cycloides* p. 18 f. 1 var. n.; *A. uerpmanni* p. 20 f. 2, 3, sp. n. Cretaceous Silesia, POLUTOFF Abh. preuss. geol. LdAnst. 155 1933.

Brachydontes capensis, atropurpureus, subpurpureus, subramosus, emarginatus, hamatus, LAMY 548.

Byssodesma gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 199.

†*Callodonta* gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 212.

†*Chondrodonta ? zemmarinensis* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 205 pl. x f. 46.

†*Colostracon tehuacanensis* sp. n. Cretaceous Puebla Mexico, MUELLER-LEERIE An. Inst. Biol. Mexico 5 1934 p. 61 fig. 37.

Congeria cochleata, VORSTMAN 1010.

†*Congeria soproiniensis* sp. n. Pontian Odenburg, VITALIS Mat. Term. Ért. Budapest 50 1934 p. 509 pl. i.

†*Clionychia oviformis* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 352 pl. iii f. 14.

†*Cosmogoniophorina* subgen. n. of *Goniophorina* (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 207.

†*Cyrtodonta (?) prima* sp. n. Lower Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. Geog. Seis. 3 9 1934 p. 532 pl. vii f. 10.

Dipleurodonta gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 195.

Ectenocardiomorpha gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 188.

Eurymyella ammonis sp. n. Silurian England, F. R. C. REED Quart. J. Geol. Soc. London 90 4 1934 p. 577 pl. xxi f. 10.

†*Exputens* gen. n. (Pteriidae) for *E. ulajasensis* p. 270 pl. xxxvii f. 11-18; *E. alexi* p. 271 pl. xxxvii f. 19-24, spp. n. Eocene California, CLARK J. Paleont. Sharon Mass. 8 3 1934.

†*Gervillia hierosolymitana* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 181 pl. vii f. 7-9.—*G. miyakoensis* p. 197 pl. xxxi (ix) f. 1, 2, pl. xxxii (x) f. 7; *pseudorostrata* p. 199 pl. xxxi (ix)

f. 6-9 spp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934.

Goniophorina gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 202.

†*Inoceramus anglicus, rauliniana*, BøGVAD 116.—*Inoceramus* Madagascar, HEINZ 399.—*I. involutus* fig., JAROS 454.—*I. labiatus* fig., MAILLIEUX 596.—*I. anglicus*, NOE-NYGAARD & SÆVE-SØDERBERGH 674.—*I. anglicus, ewaldi* figs., ROSENKRANTZ 807.—*I. cf. rauliniana* fig., ROSENKRANTZ 807.—*I. brongniarti* Sow.—*I. lamarcki* Park figs., TZANKOV 981.

†*Joannina aberrans* sp. n. (Myalinidae) Trias Saltzburg, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 29 pl. i f. 6.

†*Leiopteria ? elegans* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 17 pl. iii f. 19-20.

†*Leptodesma downtoniana* sp. n. Silurian England, R. F. C. REED Quart. J. Geol. Soc. London 90 4 1934 p. 577 pl. xx f. 6.

†*Melina woodsi* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 26 pl. iv f. 1.

†*Mimoceramus helgolandicus* sp. n. Senonien Heligoland, HEINZ Z. deuts. geol. Ges. Berlin 85 9 1933 p. 727 pl. lxi f. 2 text-fig. 1.

Modiola demissa, arcuatula, glaberrima, leucosticta, evansi, confusa, M. (Modiolaria) strigata, M. (Limnoperna) siamensis, LAMY 548.

†*Modiola transjordanica* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 206 pl. x f. 48-50.—*M. mandannaense* sp. n. Jurassic Yukon, LEES Trans. Canad. Inst. Toronto 20 1 1934 p. 43 pl. iv f. 3.—*M. flemischi* sp. n. Tertiary Waisiu East Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 p. 9, 14 pl. i f. 2, 3.—*M. camurupimica* p. 139 pl. xi f. 4; *M. arvoredensis* p. 140 pl. xi f. 5, spp. n. Cretaceous N.E. Brazil, MAURY Bull. Amer. Mus. N.H. 67 1934 (4).—*M. speciosa* pl. vi f. 17; *M. gibba* pl. vi f. 14-15e, 19-20, spp. n. Trias Dipsang, MERLA Sped. Ital. Filip. Himalaia 1913-14 Bologna (2) 11 1934 p. 116.—*M. (Amygdalum) brionensis* sp. n. Neogene Italy, VENZO

Palaeontogr. ital. Siena **34** (1933) 1934 p. 69 pl. vii [iii] f. 6-8.—*M. (Brachydontes) jeremejewi aberrans, j. cuneata, j. besobeasorae*, "vars. n." [nomm. nud.]; *M. (Modiolaria) composita, karabinskensis* "n. spp." [nom. nud.], VIALOV 1002.

†*Modiolus mutisus* p. 34 pl. iv f. 3, 7; *portunus* p. 35 pl. iv f. 5 spp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca **20** 69 1934.—*M. incomptus* Oligocene Palestine fig., L. R. COX 199.—*M. inflatus, okotensis, tenuistriatus* "spp. n.", *restorationensis palmuloidea* "var. n."; *M. solea, tetragonalis, trigonalis*, "spp. n.", *wajampolkensis angulatus* "sp. et var. n.", *watersi tigilensis* "var. n.", *angulatus* "sp. n." [nomm. nud.], SLODKEVICH 877.—*M. dilatatum* "sp. n." [nom. nud.], SLODKEVICH 877.

†*Mysidiopoda (Latemaria) subglobosa* sp. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest **49** 1933 p. 231 pl. ii f. 27, 28.

Mytilus edulis, FISCHER 271.—*Mytilus edulis*, FISCHER-PIETTE 272, 273, 282; HAAS 378.—*M. exustus*, HOPKINS 427.—*M. edule*, KLÄHN 488.—*M. edulis, galloprovincialis, viridis, martensi, strigatus*, LAMY 548.—*M. edulis*, LÖNNBERG 574.—*M. californiana* Catalase in MARKS & FOX 603.—*M. edulis* "ledging" of shells, H. B. MOORE 643.—*Mytilus*, SCHWARZ 855.

†*Mytilus signatus* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca **20** 69 1934 p. 35 pl. vii f. 4.—*M. littoralis, yokoyamai* spp. n. [nomm. nud.], SLODKEVICH 877.

†*Orpheoceramus columbianus* "n. sp." [nom. nov.] for *Inoceramus plicatus* Heinz 1928, HEINZ N. Jahrb. Geol. Paläont. Stuttgart **73** 2 1934 p. 302.

†*Ostreavicula dayi* gen. et sp. n. Cretaceous Syria, BLANKENHORN Palaeontographica Stuttgart **81A** 4-6 1934 p. 179 pl. vii f. 3, 4.

Paramodiola gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 163.

†*Pedalion wyomingensis* sp. n. Cretaceous Wyoming, HENDERSON J. Paleont. Sharon Mass. **8** 3 1934 p. 260 pl. xxxvi f. 5a, b.

†*Perna arvoredensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. **67** 4 1934 p. 137 pl. xi f. 6.—

P. lamberti sp. n. Cretaceous Puebla Mexico, MUELLERRIED An. Inst. Biol. Mexico **5** 1934 p. 58 figs.

Pinctada chemnitzii fig., HAYASAKA & TAN 397.—*P. martensi* nerve cells of heart, SUZUKI 925.

Pseudanodonta complanata, JAECKEL 452.

†*Pteria camurupimica* p. 136 pl. x f. 2; *P. mossoroensis* p. 137 pl. x f. 1, spp. n. Cretaceous N.E. Brazil, MAURY Bull. Amer. Mus. N.H. **67** 1934 (4).

†*Pteroperna pygmaea baltica* var. n. Jurassic Germany, STOLL Abh. geol. palaeont. Inst. Greifswald **13** 1934 p. 16 pl. ii f. 3, 4.—*P. bajociensis, pygmaea* figs., FABIANI & RUIZ 257.

†*Ptychopterinia* gen. n. (Pteriidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 216.

Semicoralidomus gen. n. (Modiolopsidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 175.

†*Sphenoceramus cimbricus* sp. n. Senonian Heligoland, HEINZ Z. deuts. geol. Ges. Berlin **85** 9 1933 p. 727 pl. lxi f. 1.

†*Stefaninia* gen. n. for *Gervilleia* (?) *ogilviae* Bittner Trias (Alpine), MIGLIORINI & VENZO Palaeontogr. ital. Siena **34** (1933) 1934 p. 165 pl. xiii [i] f. 23, 24.

†*Vigorniella regis* gen. et sp. n. Silurian England, F. R. C. REED Quart. J. Geol. Soc. London **90** 4 1934 p. 578 pl. xxi f. 1-9.

Volcella modiolus, LÖNNBERG 574.

†*Volcella deperdita* Lk., *woodi* Tep., *ocalensis* sp. n. Ocala Limestone Florida, MACNEIL J. Wash. Acad. Sci. **24** 10 1934 pp. 429, 431 f. 5-11.

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Adamussium gen. n. for *A. colbecki* (E. Smith) (Pectinidae), J. THIELE Handb. Syst. Weicht. (3) 1934 p. 807.

†*Amusium (Pseudamusium) hamiltonensis* sp. n. Tertiary U.S.A., TUCKER Amer. Midl. Nat. **15** 5 1934 p. 617 pl. xxvii f. 1.

†*Aviculopecten orientalis* sp. n. Permian Russia, FREDERICKS Trans. Arctic Inst. Leningrad **13** 1934 p. 38 pl. i f. 1.—*A. minutum* p. 17 pl. iii f. 10, 11; *problematica* p. 17 pl. iii f. 13 spp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo **52** 1930.

†*Camptonectes matonabbei* sp. n. Lower Cretaceous, Northern Alberta, McLEARN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 146 pl. ii f. 11-13.

Chlamys opercularis, varia figs., HERTLING 413.

†*Chlamys (Aequipecten) judaica* sp. n. Oligocene Palestine, L. R. COX Geol. Mag. London Aug. 1934 p. 349 pl. ii f. 2, 3, pl. xviii f. 1.—*C. (Chlamys) deshayesi dennisoni* subsp. n. p. 613 pl. xxvi f. 1; *sheldoniae* sp. n. p. 614 pl. xxvii f. 2; *beverlyi* nom. nov. for *Pecten (Chlamys) gilbertharrii* TUCKER 1931, non F. & H. Hodson; *C. (Lyropecten) santamaria* sp. n. p. 615 pl. xxvi f. 2; *A. (Aequipecten) barnetti* sp. n. p. 616 pl. xxv f. 2; *C. eboreus walkeriensis* subsp. n. p. 616 pl. xxvii f. 3, Tertiary U.S.A., TUCKER Amer. Midl. Nat. 15 5 1934.—*C. (Flexopecten) glabra anavallusaensis* var. n. Pliocene Coo Id., VECCHI Bol. Soc. geol. ital. 52 2 1934 p. 242 pl. xiii f. 10.—*C. (Flexopecten) flexuosa cooensis* var. n. Pliocene Coo Id., VECCHI Bol. Soc. geol. ital. 52 2 1934 p. 241 pl. xiii f. 3.—*C. (Aequipecten) deleta intercosticillatina, quinquepartita*, cf. *perrugosa* Oligocene Palestine figs., L. R. COX 199.—*C. opercularis*, KELLER 476.

†*Deltopecten illawarensis* fig., HOSKING 430.

†*Entolium irenense* sp. n. Lower Cretaceous, Northern Alberta, McLEARN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 144 pl. i f. 9, 10.

†*Flabellipecten pseudo-pasinii* nom. nov. for *Pecten pasinii* Oppenh., VENZO Palaeontogr. ital. Siena 34 (1933) 1934 p. 75 pl. vii [iii] f. 13, 14.

†*Limatulina tungtzeensis* sp. n. Permian China, GRABAU Palaeont. sinica B8 3 1934 155 p. xi f. 8.

†*Lissochlamys excisus angolensis* var. n. Tertiary Loanda W. Africa, KELLER Bol. Mus. Lab. Min. Geol. Univ. Lisbon 3 1a 1934 p. 225 pl. i f. 3.

Pecten jessoensis, swiftii, lactus, age and rate of growth, BAZIKALOVA 77.—*P. ponticus*, BORCEA 120.—*P. maximus*, HERTLING 413.—*P. maximus*, KRÜGER 507.—*P. maximus*, LEDERER 558.—*P. maximus* and *Pectenoxanthine*, LEDERER 559.—*P. vesiculosus* Dkr., NIINO 672.—*P. jacobaeus*, RAUCCI 775.—*P.*

Osbeck v. Pecten Müller, WINCKWORTH 1042.—*P. ciliary movement—metachronism*, WORLEY 1049.

†*Pecten irregularis* p. 187 pl. viii f. 19; *P. (Camptonectes) hierichuntinus* p. 188; *P. (Vola) karmeliticus* p. 190 pl. viii f. 23a, b; *P. (Vola) zakarjensis* p. 192 pl. ix f. 26a, b, spp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934.—*P. (Pseudamusium) lillisi* sp. n. Tertiary California, HERTLEIN Bull. S. Calif. Acad. Sci. 33 1 1934 p. 5 pl. i f. 1, pl. ii f. 2, 3.—*P. (Chlamys) lamiensis* p. 172 pl. xxvii f. 5-7; *nausorensis* p. 173 pl. xxvii f. 8, 9, spp. n.; *P. (Aequipecten) corymbiatus talicus* p. 175 pl. xxix f. 1, 2, subsp. n. Quarternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934.—*P. (Variamusium) klushaense* sp. n. Jurassic Yukon, LEES Trans. Canad. Inst. Toronto 20 1 1934 p. 39 pl. iii f. 1, 2.—*P. (Lyropecten) duncanensis* sp. n. Oligocene Florida, MANSFIELD J. Wash. Acad. Sci. 24 8 1934 p. 332 f. 1-3.—*P. alcesianus* sp. n. Lower Cretaceous Northern Alberta, McLEARN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 145 pl. iii f. 3.—*P. (Camptonectes) miyakoensis* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 209 pl. xxxi (ix) f. 11, 12.—*P. (Aequipecten) kikariensis* sp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tōhoku Univ. 16 2 1934 p. 153 (45) pl. v (i) f. 9a, b.—*P. iitomiensis* sp. n. Pliocene Japan, OTUKA J. Geol. Soc. Tōkyō 41 492 1934 pp. 562, 566, 567.—*P. (Aequipecten) fibrosus duplicostatus* var. n., *P. (A.) tenuicostatus* nom. nov. for *P. fibrosus* Goldfuss. Jurassic Germany, STOLL Abh. geol. palaeont. Inst. Greifswald 13 1934 p. 21 pl. ii f. 16-18.—*P. (Pecten) wendelli* pl. xxv f. 1, *P. (P.) brouweri* pl. xxv f. 4, 5, spp. n. Tertiary U.S.A., TUCKER Amer. Midl. Nat. 15 5 1934 p. 612.—*P. fuchsi praecedens* var. n. Neogene Italy, VENZO Palaeontogr. ital. Siena 34 (1933) 1934 p. 73 pl. vii [iii] f. 12.—*P. tournali, justianus, substriatus, subpleuronectes scabriusculus, cavarum*, ALBAILLE 17.—*P. tournali*, ALBAILLE 18.—*P. praescabriusculus*, CORROY 185.—*P. arcuatus* Oligocene Palestine fig., L. R. COX 199.—*P. disciformis, vagans*, figs., FABIANI & RUIZ 257.—*P. (Vola) quinquecostatus* fig., JAROS 454.—*P. fuchsi*, KELLER 476.—*P. arcuatus* Brocc. fig., REINA 780.

†*Pectinidae* (*Pecten*, *Neithea*, *Spondylus*) figs., HÄNTZSCHEL 391.

†*Plicatula millosevichi* sp. n. Cretaceous Europe, CHECCHIA-RISPOLI Bol. Soc. Geol. Ital. 53 1 1934 p. 112 pl. xi f. 1-4a.—*P. pseudofourneli* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Geol. Serv. Madagascar 4 1934 p. 16 pl. ii f. 6a, b.—*P. harrisiana* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 33 pl. iii f. 2, 3.

Spondylus americanus, HOPKINS 427.

†*Spondylus decoratus* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 210 pl. xxvii (v) f. 2, 5, 7, ? 8.—*S. hopkinsi* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 32 pl. iii f. 6.

†*Variamussium pillarensis* "sp. n." [nom. nud.], SLODKEVIČ 877.

†*Velata hartzi* sp. n. [nom. et fig.] Jurassic E. Greenland, ROSENKRANTZ Medd. Grønland 110 1 1934 pl. viii f. 1.

EULAMELLIBRANCHIA.

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†*Alectryonia tissoti semicostata* var. n. Cretaceous Syria, BLANCKENHOEN Palaeontographica Stuttgart 81A 4-6 1934 p. 198 pl. ix f. 38-41.

†*Ambonychinia* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 29.

†*Ambonychiopsis* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 82.

†*Anomalocoelia* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 98.

†*Elasmodophora* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 87.

†*Exogyra jourdyi* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 13 pl. ii f. 1a, b.—*E. yabei* p. 202 pl. xxv (iii) f. 7, pl. xxvi (iv) f. 1, pl. xxvii (v) f. 1, pl. xxviii (vi) f. 1, 2, pl. xxix (vii) f. 1, 14; *subhaliotoidea* p. 203 pl. xxx (viii) f. 1-4, spp. n. Cretaceous Japan, NAGAO J. Fac. Sci.

Univ. Hokkaido Geol. & Min. 2 3 1934. —*E. coultoni* fig., BOETTGER 111.—*E.* and *Gryphaea* bored by †*Cliona cretacea*, C. L. & M. A. FENTON 260.—*E. africana*, *columba*, *flabellata*, *alisiponensis* figs., FURON 303.

†*Gryphaea nebrascensis*, ARKELL 44. —*G.* and *Exogyra* bored by †*Cliona cretacea*, C. L. & M. A. FENTON 260.—*G. arcuata*, ZEUNER 1061.

Lima hians, LÖNNBERG 574.

†*Lima* ? (*Radula* ?) *ostreiformis* sp. n. Cretaceous Syria, BLANCKENHOEN Palaeontographica Stuttgart 81A 4-6 1934 p. 186 pl. viii f. 17a, b.—*Lima* (*Lima*) *kavorica* sp. n. Quarternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 178 pl. xxix f. 7, 8.—*L. fulgurans* sp. n. Tertiary Waisiu East Indies, MARTIN Leidsche Geol. Mededeel Leiden 6 1 1933 pp. 9 14 pl. i f. 1.—*L. (Ctenoides) ? subrapa* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 212 pl. xxx (viii) f. 9, 10.—*L. (Limea) limopsis* sp. n. Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tōhoku Univ. 16 2 1934 p. 154 (46) pl. v (i) f. 11 a, b, 12a, b.—*L. (Plagiostoma) pananga* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 33 pl. vii f. 1, 2.—*L. mytiloides* "n. sp." [nom. nud.] Trias Hungary, VIGLI 1004.

Ostrea nippona sp. n. Japan, SEKI Venus 4 5 1934 pp. 275, 276 figs. 1-15. —*O. virginica* (sterol), BERGMANN 91. —*O.*, chemistry of ostreasterol, BERGMANN 92.—*O. edulis* action of toxins, CHAPHEAU 143.—*O. virginica*, *lurida*, change of sex, figs., COE 166.—*O. angasi* liver pigment, EDSON 242.—*O. edulis*, HAAS 378.—*O. (Gryphaea) angulata*, HAAS 378.—*O. vesicularis* fig., HÄNTZSCHEL 392.—*O. virginica*, *lurida*, *gigas*, accessory hearts, HOPKINS 428.—*O. edulis*, KRÜGER 507.—*O.* storage of, NEEDLER 667.—*O. circumpecta* Pils., NINO 672.—*O. virginica* ecology and economics, PRYTHERCH 766.—*O. commercialis*, ROUGHLEY 816.—*O. circumpecta* figs., SEKI 860.—*Ostrea*, B. SUNDARA-RAJ 922.—*O. circumpecta*, *gigas*, SUZUKI 924.—*O. edulis*, Amoebocytes of, TAKATSUKI 934.—*O. edulis*, P. W. THOMSON 948.—*Ostrea* ciliary movement—metachronism, WORLEY 1049.

†*Ostrea homarensis* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart **81A** 4-6 1934 p. 195 pl. ix f. 32-33.—*O. boulei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar **4** 1934 p. 12 pl. i f. 4 a, b.—*O. ashleyi* sp. n. Tertiary California, HERTLEIN Bull. S. Calif. Acad. Sci. **33** 1 1934 p. 1 pl. i f. 2, 3, pl. ii f. 1.—*O. lagoapiatensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. **67** 4 1934 p. 138 pl. ix f. 2, 3.—*O. stappenbecki* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca **20** 69 1934 p. 27 pl. iii f. 4, 5.—*O. crassissima*, *granensis*, ALBAILLE **17**.—*O. acuminata*, *hebridica*, *knorrii* figs., ARKELL **44**.—*O. flabellulaeformis* Oligocene Palestine fig., L. R. COX **199**.—*O. costata* fig., FABIANI & RUIZ **257**.—*O. prismatica*, OLIVIERA **691**.—*O. edulis*, WERVEKE **1034**.

†*Paramytilarca* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 129.

Pinna nobilis, *menkei*, silk from fig., ALLAN **21**.

†*Pinna ovata* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart **81A** 4-6 1934 p. 180 pl. vii f. 5.—*P. cancellata* fig., FABIANI & RUIZ **257**.

†*Praeanomalodonta* gen. n. (Ambonychiidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 91.

†*Trichites praealtus* sp. n. Corallian Britain, ARKELL Monogr. Palaeont. Soc. London **86** 6 1934 p. 229 pl. xxxi f. 1, 1a.

SUBMYTILACEA.

Actinonaias carinata fig., DOLLEY **231**.

Acuticosta chinensis fig., HAAS **374**.

Aetheria elliptica, GERMAIN **322**.

Alasmidonta marginata fig., DOLLEY **231**.

Alathyria gen. n. p. 63 type *A. jacksoni* sp. n. Barwon R. Australia pp. 63, 64, pl. iii f. 11, pl. iv f. 11; *A. pertexta* "sp. n." [nom. nov.] = *shuttleworthi* Lea 1856, non Kuster 1855; = *angasi* Smith 1881, IREDALE Aust. Zool. Sydney **8** 1934.

†*Anisocardia nitida bicarinata* var. n. Jurassic Germany, STOLL Abh. Geol. palaeont. Inst. Greifswald **13** 1934 p. 13 pl. i f. 35.—*A. rostrata*, *nitida*, FABIANI & RUIZ **257**.

Anodonta cygnea (sterols), BERGMANN **91**.—*A. cygnea* and var. *zellensis*, H. H. BLOOMER **107**.—*A. cygnea* gills, figs., BLOOMER **107**.—*A.* shell structure figs., BRAUNE **126**.—*A. grandis* fig., DOLLEY **231**.—*A. cygnea* variation, ENTZ & SEBASTYÉN **253**.—*A. cygnea* muscles and nerves of the heart, ESSER **254**.—*A. piscinalis*, *cellensis*, GRAHE **357**.—*A. woodiana*, *arcaiformis*, HAAS **374**.—*A. cygnea* mantle anatomy, HAAS **377**, **378**.—*A. cygnea* defect in mantle, MRŠIĆ **656**.—*A. piscinalis lacustrina* figs., PFANNENSTIEL **722**.—*A. mutabilis* = *Anodonta debettana*, d. vars. *minor*, *caldariensis*, *madranica*, *bulsanensis*, *zeni*; *A. cobelliana*, *c. toblinica*, *aegrotu*, *pini*; *A. ambrosiana*, PIERSANTI **728**.—*Anodonta*, RYDING **826**.—*A. cellensis* f. *tenuis* abnormal figs., URBANSKI **986**.

†*Anodonta matheurensis* sp. n. Pliocene Oregon, HENDERSON & RODECK J. Paleont. Sharon Mass. **8** 3 1934 p. 265 pl. xxxvii f. 1a, b.

Anodontites scadei sp. n. Tubicuary River at Aroja, S. Paraguay, MARSHALL J. Wash. Acad. Sci. **24** 2 1934 p. 80 f. 4-6.

Anodontoides ferussacianus subcylindraceus fig., DOLLEY **231**.

†*Anthonya* [= *Anthonia*] *subcanthiana* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. **2** 3 1934 p. 222 pl. xxv (iii) f. 11, pl. xxx (viii) f. 6, 7.—*A. murrayensis* sp. n. Cretaceous British Columbia, WARREN Trans. Roy. Soc. Canad. (3) **27** 4 1933 p. 114.

†*Arctica limpidiana* sp. n. Lower Cretaceous Northern Alberta, McLEARN Trans. Roy. Soc. Canad. (3) **27** 4 1933 p. 150 pl. ii f. 3-5.

Astarte madseni "n. sp." [nom. nud.], ROSENKRANTZ p. 79 808.

†*Astarte* (*Coelastarte*) *rectangula* p. 248 pl. xxxiii f. 16, *A. (C.) settringtonensis* p. 250 pl. xxxiii f. 17, 18, Corallian Yorkshire, England, ARKELL Monogr. Palaeont. Soc. London **86** 6 1934.—*A. mijakoensis* p. 218 pl. xxx (viii) f. 8, pl. xxxii (x) f. 1, 3-5; *subomalioideis*

p. 219 pl. xxvii (v) f. 3, 4; *minor* p. 220 pl. xxviii (vi) f. 5-10; *semicostata* p. 221 pl. xxv (iii) f. 2, pl. xxi (ix) f. 3-5, pl. xxxii (x) f. 6 **spp. n.** Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934.—*A. deecke* sp. n. Jurassic Germany, STOLL Abh. geol. palaeont. Inst. Greifswald 13 1934 p. 11 pl. i f. 37, 38.—*A. thoas* fig., FABIANI & RUIZ 257.—*A. borealis, sulcata*, FORREST 289.

Caelatura aegyptiaca, iacoini, GERMAIN 322.

Calculina lacustris nerves fig., STORK 912.

†*Carbonicola fallax* p. 13 f. 2; *protea* p. 14 f. 3; *obliqua* p. 15 f. 4; *haberg-hamensis* p. 16 f. 5; *limax* p. 17 f. 6A, **spp. n.** Carboniferous Lancashire, WRIGHT Summ. Progr. Geol. Surv. Gt. Brit. for 1933 2 1934.

†*Carbonicola ovalis, similis*, TRUEMAN 974.

†*Carbonicola* variation in Carboniferous of Lancashire, WRIGHT 1054.

†*Cardita blakei* p. 218 pl. xi f. 77; *C. dubertreti* p. 220 pl. xi f. 78-81, **spp. n.** Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934.—*C. angolensis* sp. n. Tertiary Loanda, West Africa, KELLER Bol. Mus. Lab. Min. Geol. Univ. Lisbon 3 1a 1934 p. 238 pl. v f. 5 and text-fig. 3.—*C. arduini subtriangula* var. n. Neogene Italy, VENZO Palaeontogr. ital. Siena 34 (1933) 1934 p. 64 pl. vi [ii] f. 32.—*C. kovatschensis* "sp. n." [nom. nud.], SLODKEVIC 877.—*C. beringiana* "sp. n.," monilicosta ochotica "var. n." [nomm. nud.], SLODKEVIC 877.—*C. denudata, snatolana, kinkilana* "spp. n." [nomm. nud.], SLODKEVIC 877.—*C. bucharensis, turkomanica*, "n. spp." [nomm. nud.] *aegyptiaca orientalis* "n. v." [nom. nud.], VIALOV 1002.

†*Carditomantea reecei* sp. n. Silurian England, F. R. C. REED Quart. J. Geol. Soc. London 90 4 1934 p. 573 pl. xx f. 5.

†*Castalioides* gen. n. [Unionidae], type *C. laddi* sp. n. Quaternary Venezuela, MARSHALL J. Wash. Acad. Sci. 24 2 1934 p. 78 f. 1-3.

Centralhyria gen. n. type *Unio stuarti* Adams & Angas, IREDALE Aust. Zool. Sydney 8 1934 p. 65 pl. iii f. 12, pl. iv f. 12.

†*Congeridia dactyliformis* sp. n. Miocene Serbia, PAVLOVICA Ghlas. srpsk. Kralj. Akad. Belgrade 78 1933 p. 84 pl. i f. 6.

Contradens verbeeki fig., HAAS 374.

†*Coralliophaga laseona* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 180 pl. xxix f. 12-14, pl. xxx f. 1.

Corbicula audouini, GERMAIN 322.—*C. maxima*, TAN 937.

†*Corbicula hizenensis* pp. 341, 344 pl. v f. 3, pl. vi f. 9-11; *nakayamana* pp. 341, 346 pl. vii f. 14, 15 **spp. n.** Oligocene Hizen, Japan, UCHI Venus 4 6 1934.—*C. maxima*, TAN 937.

†*Corbis maiiae* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934 p. 131 pl. xii f. 3.

†*Crassatellites* (or *Crassatella*) *andrewsi* p. 260 pl. xxxvi f. 6a-d (Wyoming); *hendricksoni* p. 261 pl. xxxvi f. 9a, b (Montana), **spp. n.** Cretaceous, HENDERSON J. Paleont. Sharon Mass. 8 3 1934.

†*Crassinella quintinensis* sp. n. Upper Pleistocene San Quintin Bay, Lower Calif., MANGER John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 298 pl. xxi f. 1, 2.

Cristaria plicata, discoidea sautteri, figs., HAAS 374.—*C. discoidea sautteri* fig., HAYASAKA & TAN 397.

Cucumerunio gen. n. type *Unio novaeollandiae* Gray, IREDALE Aust. Zool. Sydney 8 1934 p. 75 pl. v f. 15, pl. vi f. 15.

Cuneopsis heudei fig., HAAS 374.

†*Cyprina bassae* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Geol. Serv. Madagascar 4 1934 p. 25 pl. xiv f. 1, 2.

Cyprogenia aberti glochidia and conglutinates, figs., CHAMBERLAIN 141.

†*Cyrena albertensis* sp. n. Cretaceous British Columbia, WARREN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 115 pl. ii f. 2, 3.

†*Diplodon luciano* sp. n. Trias Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934 p. 175 pl. xii f. 2, 4, 6.

Dreissena polymorpha, OVČINNIKOV 701.

Dreissensia, RYDING 826.

Elliptio maywebbae sp. n. nr. Seminole Springs, Florida, B. H. WRIGHT Nautilus Philad. 48 1 1934 p. 28 pl. xiii of Vol. 47 f. 5-8.—*E. dilatatus delicatus* fig., DOLLEY 231.

Ensidents sagittarius figs., HAAS 374.

Fusconaia flava fig., DOLLEY 231.

Heikea gen. n. (Cyrtodontidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 273.

Hyridella australis attached to foot of *Anas superciliosa*, COTTON 191.

Hyridella (Hyridella) bardwelli sp. n. Glenelg River, Kimberley Div. Western Australia, W. J. CLENCH J. Conch. London 20 3 p. 89 pl. ii.

Hyridunio gen. n. p. 68 "type" *H. australis drapeta* subsp. n. Queensland; *australis* figd. [not subsp.] pl. v f. 1, 2, pl. vi f. 2, 3; *H. renutus* sp. n. Victoria p. 69 pl. v f. 3, pl. vi f. 4, IREDALE Aust. Zool. Sydney 8 1934.

Hyriopsis cumingi, *bialata*, figs., HAAS 374.

†*Hyriopsis matsuurensis* sp. n. Oligocene Hizen, Japan, UEJI Venus 4 6 1934 pp. 341, 342 pl. v f. 1, 2, pl. vi f. 12.

†*Isocardia wiedeyi* p. 52 pl. ii f. 4, 5; *pananga* p. 54 pl. ii f. 2 spp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934.

†*Isocyprina simplex* p. 269 pl. xxxv f. 17-20; *I. eboracensis* p. 270 pl. xxxv f. 1a, b, 61 spp. n. Corallian Britain; *I. roederi* sp. n. Jurassic Alsatia p. 263 pl. xxxv f. 21, ARKELL Monogr. Palaeont. Soc. London 86 6 1934.

Kellia type designation by Récluz, WINCKWORTH 1042.

Lamprotula leai fig., HAAS 374.

†*Lamprotula nojimensis* sp. n. Carboniferous Northern Kyûshû, Japan, UEJI Venus 4 5 1934 p. 284 figs. 1-8.

Lampsilis jonesi sp. n. [*Lampsilis* j. on plate 15] Pea River, Alabama, SCHALLIE Nautilus Philad. 47 4 1934 p. 125 pl. xv.—*L. ventricosa* fig., DOLLEY 231.

Lanceolaria gladiolus, *grayana*, figs., HAAS 374.

Lasmigona costata fig., DOLLEY 231.

Leptodea gracilis, *Allocreadium icaluri* the cause of pearl formation in, HOPKINS 429.

†*Limnocardium vario-costatum* p. 703, *soproniense* p. 696, spp. n. Tertiary Europe, I. VITALIS Mat. Term. Erv. Budapest 51 1934.

Lortella froggatti sp. n. N.W. Australia, IREDALE Aust. Zool. Sydney 8 1934 p. 71 pl. v f. 5, pl. vi f. 5.

Lucina odontotis sp. n. Sarawak, SALISBURY J. Conch. London 20 2 1934 p. 58 pl. i.—*L. odontotis* Salisbury sp. n. dimensions of holotype, [TOMLIN] 958.

†*Lucina oblonga* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 237 pl. xiii f. 123a, b.—*L. quadrata* sp. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 p. 233 pl. ii f. 32.—*L. (Mitha) hetzeli* pp. 9, 15 pl. i f. 5, 5a; *L. petrolei* pp. 9, 16 pl. ii f. 7, 7a, spp. n. Tertiary Waisiu, E. Indies, MARTIN Leidsche Geol. Mededeel Leiden 6 1 1933.—*L. kotoi* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 226 pl. xxix (vii) f. 5, 6.—*Lucina*, KÜHN 511.

†*Macrodesma* gen. n. (Cyrtodontidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 226.

Macra sachalinensis optimum temperature embryonic development, KINOSHITO & HIRANO 486.—*M. subtruncata* nerves fig., STORK 912.

Margaritana margaritifera with *Platypnydium rusciforme* attached to shells, figs., KOBÄ 497.—*M. margaritifera* figs., URBANSKI 987.

†*Margaritifera gerberi* sp. n. Oligocene Switzerland, MODELL Archiv f. Molluskenk. 66 4/5 1934 p. 208 pl. xii f. 1.—*M. flabellifera*, *subflabellata*, figs., MODELL 636.

†*Megacardita arduini curta* pl. i f. 7, *a. elongata* pl. i f. 6 vars. n. Oligocene Italy, SERGIO Studi Trentini Sci. Nat. Trento 14 3 1933 p. 197.

†*Megalodus desioi* sp. n. p. 235 pl. xi f. 1-3, *d. italica* f. n. p. 237 pl. x f. 2, 3, Trias Italy, KUTASSY Atti Soc. ital. Milano 72 3-4 1933.—*M. amplius* p. 14 pl. i f. 1a-e; *M. vertesensis* p. 17 pl. i f. 2a-c; *M. hungaricus* p. 17 pl. ii f. 4a-c, spp. n.; *M. a. rotundata* p. 15 pl. ii f. 3a-b; *M. secco* Par. *baconica* p. 16, vars. n. Trias Hungary, KUTASSY

Mag. K. földt. Int. Évk. Pest. **63** 1-6 1933.—*M.* [= *Megalodon*] *complanatus segestana* Di Stef., *seccoi* Par. figs., KUTASSY.

†*Milkha borgesii* sp. n. Tertiary Loanda W. Africa, KELLER Bol. Mus. Lab. Min. Geol. Univ. Lisbon **3** 1a 1934 234 pl. iii f. 10.—*M.* (*Milthoidea*) *grandis* (H. Woods), *M.* (*M.*) *g. flindersiana* subsp. n. Tertiary Australia, SINGLETON & WOODS Proc. Roy. Soc. Vict. (N.S.) **46** 2 1934 p. 210 pl. viii f. 4.—*M. obliqua* sp. n. Neogene Italy, VENZO Palaeontogr. ital. Siena **34** (1933) 1934 p. 59 pl. vi [ii] f. 18, 19.

Modiolopsis leightoni curta p. 575 pl. xxi f. 11, *M. complanata trimpleyensis* p. 574 pl. xx f. 7, 8, vars. n. Silurian England, F. R. C. REED Quart. J. Geol. Soc. London **90** 4 1934.

Modiolopsis kogenensis* p. 354 pl. iii f. 6, 18-20; *reedi* p. 355 pl. iv f. 21; *elongata* p. 356 pl. iv f. 9-10; *hinomotoensis* p. 356 pl. iii f. 12-13; *rugosa* p. 857 pl. iii f. 4-5 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. **3 8 1934.

Montacuta phascolionis, WINCK-WORTH **1041**.

Musculium lacustre (O. F. Müll.), ADENSAMER **12**.

Mutela (Mutelina) rostrata, GERMAIN **322**.

†*Myoconcha beyrichi*, HUENE **438**.

Nodularia douglasiae fig., HAAS **374**.

Physunio gravidus figs., HAAS **374**.

Pisidium floresianum sp. n. Flores Id. (Sunda Ids.), RENSCH Zool. Jahrb. Jena (Syst.) **65** 1934 p. 418 f. 9.—*P. cinereum* Alder = *P. casertanum* Poli, ADENSAMER **12**.—*P.* Windermere, MOON **641**.—*P. lilljeborgi* fig., POLINSKI **751**.—*P.* Paul Lake B.C., RAWSON **777**.—*P. henslowanum* Shepp. nerves fig., STORK **912**.

†*Platopsis ? gracilis* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart **81A** 4-6 1934 p. 222 pl. xi f. 83, 84.

†*Plesielliptio* subgen. n. of *Elliptio* (Unionidae), genotype *Unio priscus* Meek & Hayden, RUSSELL Canad. Field Nat. **48** 1 1934 p. 3.

†*Protelliptio* subgen. n. of *Elliptio* (Unionidae), genotype *Unio biornatus* Russell, RUSSELL Canad. Field Nat. **48** 1 1934 p. 2.

Pseudanodonta complanata, GRAHLE **357**.

Pseudoanodonta [= *Pseudanodonta*] *kletti* figs., URBANSKI **987**.

Pseudodon moreleti fig., HAAS **374**.

Ptychorhynchus pfisteri fig., HAAS **374**.

Rectidens prolongatus figs., HAAS **374**.

†*Roudaireia jamaicensis peruviana* "n. sp." [var. n.] Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca **20** 69 1934 p. 42 pl. ii f. 6.

†*Roudairia besairiei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar **4** 1934 p. 26 pl. iv f. 3a, b.

Rugoshyria gen. n. type *Unio paramattensis* Lea = *U. depressa* Lk., IRDALE Aust. Zool. Sydney **8** 1934 p. 71 pl. v f. 6, 7, pl. vi f. 6, 10.

†*Salaputium corioensis* sp. n. Tertiary West Beach, Coris Bay, Victoria, CHAPPLE Mem. Nat. Mus. Melbourne **8** 1934 p. 162 pl. xix f. 1, 1a.

Schistodesmus lampreyanus fig., HAAS **374**.

Simpsonella purpurea figs., HAAS **374**.

Spatha rubens, r. *wissmanni*, r. *chudeaui*, *S. (Spathopsis) decorsei*, GERMAIN **322**.

†*Sphaera madridi* fig., FABIANI & RUIZ **257**.

Sphaeriidae of Gran Paradiso, GAMBETTA **308**.—Sphaeriidae of Gran Paradiso, GAMBETTA **309**.

Sphaerium Paul Lake B.C., RAWSON **777**.—*S. corneum* nerves fig., STORK **912**.

†*Sphaerium malheurense* sp. n. Pliocene Oregon, HENDERSON & RODECK J. Paleont. Sharon Mass. **8** 3 1934 p. 266 pl. xxxvii f. 2a-c.—*S. matejici* sp. n. Miocene Serbia, PAVLOVICA Ghlas. srpsk. Kralj. Akad. Belgrade **78** 1933 p. 84 pl. i f. 10.

Strophitus rugosus fig., DOLLEY **231**.

†*Thorslundia* gen. n. (Cyrtodontidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 315.

†*Thyasira bisecta* figs., NIINO 671.—*T. clarki* "sp. n." [nom. nud.], SLODKEVIC 877.—*T.* distribution in N. Sea, STEPHEN 902.

Unio (Elliptio) webbianus sp. n. p. 94 pl. x f. 1, 2; *U. (E.) webbianus hartii* subsp. n. p. 95 pl. x f. 3, 4 Florida, B. H. WRIGHT Nautilus Philad. 47 3 1934.—*U. crassus* abnormal, BOETTER 112.—*U. pictorum, tumidus, crassus*, GRAHLE 357.—*U. nux-persicae* Dkr. fig. 4a, HAAS 379.—*U. douglasiae taiwanicus* figs., HAYASAKA & TAN 397.—*U. pictorum, tumidus* naere formation, OVČINNIKOV 699.—*U. crassus*, economics figs., OVČINNIKOV 700.—*U. pictorum f. crassa, f. typica, tumidus*, abnormal figs., URBANSKI 986.

†*Unio thomasi* p. 259 pl. xxxvi f. 2a-d; *U. arizonensis* p. 259 pl. xxxvi f. 7a, b spp. n. Trias Arizona, HENDERSON J. Paleont. Sharon Mass. 8 3 1934.—*U. sparsa* sp. n. Tertiary Waisiu East Indies, MARTIN Leidsche Geol. Mededeel. Leiden 6 1 1933 pp. 9, 15 pl. i f. 4, 4a.—*U. wendli schwegleri* subsp. n. Oligocene Switzerland, MODELL Archiv f. Moll. 66 4/5 1934 p. 214 pl. xii f. 8-11.—*U. vogti, wolffi* figs., MODELL 636.—*U. laveteri* figs., PFANNENSTIEL 722.

Unionidae, teratology in, HAAS 377.—*U.* of Sapporo Japan figs., HAYASHI 398.—*U.* of Western Siberia, JOHANSEN 457.—*U.* studies on ciliates from, *Conchophthirius anodontae, curtus, magna*, nuclear phenomena, KIDDER 482.—*U.*, Swiss Oligocene, MODELL 636.—Unionidae, STEUSLOFF 904.

Velesunio gen. n. type *Unio balonensis* Conrad, IREDALE Aust. Zool. Sydney 8 1934 p. 59 pl. iii f. 1-3, pl. iv f. 1-3.—*V. danelli* (pearl bearing), ALLAN 24.

†*Venericardia depressulata* p. 67 pl. v f. 3, *gippslandica* p. 67 pl. v f. 4, spp. n., *sinulosa dennanti* var. n. p. 68 pl. v f. 5, 6, Tertiary Gippsland Victoria, CHAPMAN & CRESPIN Proc. Roy. Soc. Vict. (N.S.) 46 1 1934.—*V. mossoroensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934 p. 130 pl. xii f. 5.—*V. millegrana* p. 154 (46) pl. v (i) f. 13a-b, 14a-b; *V. quadrangulata* p. 155 (47) pl. v (i) f. 15a-b,

16a-b, Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934.—*V. weberbaueri* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 44 pl. vi f. 3, 5.—*V. hannai* sp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 113 pl. vii f. 3-9.—*V. beaumonti* fig., FURON 303.—*V. cipangoana* bored by gastropods figs., HAYASAKA 396.—*V. kevetscheveemensis* "sp. n." [nom. nud.], SLODKEVIC 877.

†*Warburgia* gen. n. (Cyrtodontidae) Ordovician Sweden, ISBERG "Stud. Lamell. in Dalarna" Lund 1934 p. 263.

Westralunio gen. n. "type" *W. ambiguus carteri* subsp. n. West Australia, IREDALE Aust. Zool. Sydney 8 1934 p. 62, *ambiguus* figd. [not subsp.] pl. iii f. 8, pl. iv f. 8.

TELLINACEA.

Amphidesma ventricosum, EDSON 242.

Amphidesmatidae S. Australia, COTTON 189.

†*Bartrumia* gen. n. (Tellinidae) type *Raeta tenuiplicata* Bartrum Lower Miocene N.Z., MARWICK Proc. Malac. Soc. London 21 1 1934 p. 10 pl. i f. 1, 2.

Clathrotellina subgen. n. of *Merisca* Dall. (Tellinidae), type *M. (C.) pretiosa* (Desh.), THIELE Handb. Syst. Weicht. (3) 1934 p. 917.

Cumingia experiment of centrifuged eggs of, COSTELLO 188.

Cumingia tellinoides electrokinetics of ova, DAN 207.

Cumingia, GRAVE 360.

Donacidae, S. Australia, COTTON 189.

Donax vittatus muscular system figs., GRAHAM 355.—*D. vittatus* anatomy figs., GRAHAM 356.—*D. vittatus*, PRENANT 762.

†*Linearia bomarea* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 56 pl. vi f. 4.

Macoma balthica anatomy figs., GRAHAM 356.—*M. praetexta, tokyoensis, truncata, nasuta, incongrua, inquinata*, figs. of shells and of pallial sinus, OINOMIKADO 682.—*M. (Psammacoma) aurora* Han., *M. ancilla* Han. lectotypes figd., SALISBURY 828.—*M. calcarea* community, THORSON 949.—*M. (Tellina) baltica*, VALIKANGAS 990.

†*Macoma lorenzoensis arnoldi* subsp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 119 pl. ix f. 2-8.

Macra stultorum Linn. in association with *Pinnotheres pisum* Penn., DALGLIESH 205.—*M. glauca* extinct on Cornish coast, WINCKWORTH 1041.

†*Macra angolensis* sp. n. Tertiary Loanda W. Africa, KELLER Bol. Mus. Lab. Min. Geol. Univ. Lisbon 3 1a 1934 p. 230 pl. v f. 4a, b.—*M. (Mactrotoma) tholoensis* sp. n. p. 193 pl. xxxiii f. 6-8; *M. (Coelomacra) nasongoensis* sp. n. p. 196 pl. xxxiii f. 10, pl. xxxiv f. 1, 2, Quarternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934.—*M. (Spisula) asperaeformis* sp. n. Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 156 (48) pl. v (i) f. 20a, b.

Mactridae S. Australia, COTTON 189.

Rostrinacoma subgen. n. of *Macoma*, type *Panopea cancellata* Sow. = *Tellina wroblewskyi* Bock, SALISBURY Proc. Malac. Soc. London vol. 21 1934 p. 82 pl. x f. 3, 1 and 2.

Scrobicularia plana muscular system figs., GRAHAM 355.—*S. plana* anatomy figs., GRAHAM 356.

Semelidae S. Australia, COTTON 189.

Spisula elliptica, subtruncata, solida distribution in N. Sea, STEPHEN 902.

†*Spisula (Mactromeris) hemphilli orcutti* var. n. Upper Pleistocene San Quintin Bay Lower Calif., MANGER John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 301 pl. xxi f. 5, 6.—*S. pittsburgensis frustra* subsp. n. Upper Oligocene U.S.A., TEGLAND Univ. Calif. Pub. Geol. 23 3 1933 p. 121 pl. ix f. 9-12.

Strigilla splendida Hanley lectotype figd., SALISBURY 828.

Syndesmya ovata, BORCEA 120.—*S. alba*, STEPHEN 901.—*S. alba, nitida, prismatica* distribution in N. Sea, STEPHEN 902.

Tellina pteroessa nom. nov. for *T. alata* Goldfuss non Gmelin, SALISBURY Proc. Malac. Soc. London vol. 21 1934 p. 83.—*T. ancylus* nom. nov. for *T. arcuata* Sow. 1867 non Roemer 1839 p. 84; *T. brevicornuta* nom. nov. for *T. brevirostris* Desh. 1854 non Oken 1815 p. 84; *T. brochota* nom. nov. for *T. clathrata* Bertin non Reuss. p. 84; *T. chariessa*

nom. nov. for *elegans* Wood non Desh. p. 84; *T. chroma* nom. nov. for *T. fucata* Gould. p. 84; *T. senegambiensis* nom. nov. for *listeri* Hanley non Röding p. 85; *T. tabogensis* nom. nov. for *panamensis* Dall non Philippi p. 86; *T. coromandelica* nom. nov. for *parvula* Smith non Bertin p. 86; *T. regina* nom. nov. for *picta* Sow. non Röding p. 86; *T. pretium* nom. nov. for *pretiosa* Desh. non Eichwald p. 86; *T. puellula* nom. nov. for *puella* C. B. Ad. non Hanley = *ampullacea* Phil. p. 86; *T. canonica* nom. nov. for *regularis* Smith non Cpr. p. 86; *T. retiaris* nom. nov. for *reticulata* Sow. non Linnaeus p. 86; *T. rotunda* nom. nov. for *rotundata* Sow. non Mont. p. 87; *T. suzensis* nom. nov. for *scitula* H. Ad. p. 88; *T. simplicaria* nom. nov. for *simplex* Sow.; *simplicitas* nom. nov. for *simplex* A. Ad. p. 89; *T. kallima* nom. nov. for *spectiosa* Desh. non F. E. Edwards (Eocene) p. 89; *T. hypelliptica* nom. nov. for *subelliptica* Sow. non Meek & Hayden p. 89; *T. lyngei* nom. nov. for *tenuisculpta* Lyngé non Sow. p. 89; *T. praerupta* nom. nov. for *truncata* Jonas non Linné p. 90; *T. (Angulus) wallaceae* sp. n. Muscat p. 90 pl. xiv f. 3-5; *T. (Tellinarius) winckworthi* sp. n. Gwadar p. 90 pl. xiv f. 6, 7; *T. (Fabulina) tomlini* sp. n. Persian Gulf p. 91 pl. xiv f. 1, 2, SALISBURY Proc. Malac. Soc. London vol. 21 1934.—*Tellina britannica* sp. n. Shetlands, TOMLIN Proc. Malac. Soc. London 21 2 1934 p. 145 pl. xiv f. 8-10.—*T.* (Ecology of), R. ELMHIRST 249.—*T. crassa* anatomy figs., GRAHAM 356.—*Tellina cancellata* Preston = *carnicolor* Hanley; *carnea* Phil. = *iridescens* Bens.; *T. obtusa* Sow. = *T. promera* Dall.; *T. bertini* Jouss. and *yemenensis* Melvill both = *rutula* Dkr.; *obtusa* Sow. is *promera* Dall.; *pura* H. Ad. = *T. (Homala) secunda* Bertin = *rhomboides* Q. & G. = *cerasum* Sow. syns. of *clathrata* Desh.; *rosea* Spengl. is *dautzenbergi* Nobre; *Tellina vulsellata* and *rostrata*; *Tellina kolabana* Melv. is *subtruncata* Hanley; *incerta* Desh. is *crucigera* Lk.; *hyalina* Desh. is *tenuis* Da C.; *gratiosa* Römer is *ovalis* Sow.; *gracilis* Sow. is *mars* Hanley; *elliptica* Lk. = *sol* Hanley syns. of *magna* Spengler; *corbis* Sow. is *carnicolor* Hanley; *carnea* Phil. is *iridescens* Bens.; SALISBURY 828.—*Tellina tenuis* PRENANT 762.—*T. tenuis*, STEPHEN 901.—*T. fabula, pusilla* distribution in N. Sea, STEPHEN 902.

†*Tellina cottreai* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 28 pl. iv f. 8, 8a.—*T. raiterii* sp. n. Eocene Syria, NEGRI Att. soc. ital. Sci. nat. Milan 1934 (12) p. 251 pl. v f. 4.—*T. kikaizimana* sp. n. Cretaceous Japan, NOMURU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 157 (49) pl. v (i) f. 19a, b.—*T. (Linearia) delicatula* sp. n. Cretaceous British Columbia, WARREN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 115 pl. i f. 5, 6.—*Tellina leia* nom. nov. for *aequalis* Gabb 1869 non Desh. 1854, SALISBURY Proc. Malac. Soc. London vol. 21 1934 p. 83.—*T. goniodes* nom. nov. for *Tellina angulata* Desh. p. 83; *T. browniana* nom. nov. for *T. browni* Woodring 1925 non Greg. 1884 p. 84; *T. nebraskensis* nom. nov. for "*Tellina*" *formosa* Jurassic, Meek & Hayden non Hanley p. 84; *T. parisiensis* nom. nov. for *nitidula* Deshayes non Dunker p. 85; *T. norfolkensis* nom. nov. for *T. ovalis* Woodward non Sow. *harborti* nom. nov. p. 86; *T. curva* nom. nov. for *sinuata* Lk. non Spengler (recent) non *sinuosa* Gmel. (indet.) p. 89; *T. stephensoni* nom. nov. for *simplex* Stephenson p. 89; *T. davis* nom. nov. for *tenuistriata* Davis non Desh. [Davis' shell has been renamed *insurana* Hanna 1924, *davis* therefore falls into synonymy] p. 90, SALISBURY Proc. Malac. Soc. London vol. 21 1934.—*T. Tellina pulchra* "sp. n." [nom. nud.], SLODKEVIC 877.

Tellinidae S. Australia, COTTON 189.

Tellinidae, SALISBURY, 828.

VENERACEA.

†*Anomalocardia subrugosa* sp. n. Upper Pleistocene San Quintin Bay, Lower Calif., MANGER John Hopkins Univ. Stud. Geol. Baltimore 11 1934 p. 299 pl. xxxi f. 3, 4.

†*Antigona* (*Dosina* [sic]) *puerpera valuwensis* subsp. n. p. 187 pl. xxxii f. 5, 7; *A. (Ventricola) vitiensis* sp. n. p. 188 pl. xxxi f. 8–11 Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934.

†*Chione marica* bored by gastropods figs., HAYASAKA 396.

Circe weedingi sp. n. S. Australia, COTTON Rec. S. Aust. Mus. Adelaide 5 2 1934 p. 175 f. 3, 4.

†*Cyprimeria riograndensis* sp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934 p. 135 pl. ix f. 1.

†*Cytherea? arnonensis* sp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4–6 1934 p. 256 pl. xiv f. 159, 160.

†*Dosinia wailoae* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 189 pl. xxxi f. 12, pl. xxxii f. 1, 2.

†*Dosinia fragilis* sp. n. Neogene Italy, VENZO Palaeontogr. ital. Siena 34 (1933) 1934 p. 54 pl. vi [ii] f. 3.

†*Dosiniopsis corrugata* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 229 pl. xxiv (ii) f. 2–6, 9.

Globivenus gen. n. for *Venus effossa* Bivona, COEN Boll. Soc. Venez. Stor. Nat. Venezia 1 4 1934 p. 52.

†*Icanotia peruviana* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 55 pl. v f. 5.

Meretrix meretrix variation in shells with ref. to growth of organism, HAMAI 387.—*M. meretrix*, HAMAI 388.—*Meretrix casta* as spat "collector" in Pulicat Oyster farm, SUNDARA-RAJ 922.

†*Meretrix kassandrae* sp. n. Eocene Europe, KÜHN Cbl. Min. Geol. Paläont. Stuttgart B3 1934 p. 133 f. 1, 2.—†*M. ovisimilis* Oligocene Palestine fig., L. R. COX 199.

Paphia staminea rate of growth, food, G. M. SMITH 879.

Petricola japonica figs., KURODA 525.

†*Petricola lithophaga* boring habits, KÜHNELT 516.

Petricolidae S. Australia, COTTON 189.

Ptychomya densicostata sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 224 pl. xxviii (vi) f. 4.

†*Tapes* [*Paphia*] (*Taurotapes*) *stefaninii* sp. n. Neogene Italy, VENZO Palaeontogr. ital. Scienza 34 (1933) 1934 p. 48 pl. v [i] f. 22.

Veneridae S. Australia, COTTON 189.

Venus subplicata, multilamellata in a Neolithic tomb, Poland, FRIEDBERG 296.—*V. fluctuosa* community, THORSON 949.

†*Venus (Chione) zabei* sp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 156 (48) pl. v (i) f. 18a, b.

CARDIACEA.

†*Arcicardium* "n. sp." pl. ii f. 24, DAVIDACHVILI 212.

Cardiidae, siphons in figs., HAAS 377.

Cardium edule, BORECA 120.—*Cardium* ecology, R. ELMHIRST 249.—*C. edule*, FREYBERG 295.—*C. edule*, GERMAIN 322.—*C. variation*, HAREGA 393.—*C. edule*, KLÄHN 488.—*C. edule* ecology, STEPHEN 901.—*C. edule* nerves fig., STORK 912.

†*Cardium pauli aequilaterale* var. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 240 pl. xiii f. 125.—*C. (Protocardium) madagascariense* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 25 pl. iii f. 14, 14a.—*C. rewaense* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 182 pl. xxx f. 7, 8.—*C. jenkinsi* p. 132 pl. xii f. 1; *galateae* p. 132 pl. xi f. 3; *itapassarocanum* p. 134 pl. xi f. 7; *endymionis* p. 134 pl. x f. 4, spp. n. Cretaceous Brazil, MAURY Bull. Amer. Mus. Nat. Hist. N.Y. 67 4 1934.—*C. ochoterenai* sp. n. Cretaceous Mexico, MUELLERRIED An. Inst. Biol. Mexico 4 3-4 1933 p. 331 f. 1, 2.—*C. amotapense* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 51 p. v f. 1.—*C. (Trachycardium) infantule* sp. n. Cretaceous Japan, NOMORU & LINBO Sci. Rep. Tôhoku Univ. 16 2 1934 p. 156 (48) pl. v (i) f. 17a, b.—*C. (Cerastoderma) edule desioi* var. n. Pliocene, Is. Coe, VECCHI Bol. Soc. geol. ital. 52 2 1934 p. 240 pl. xiii f. 4.—*C. arduini* Oligocene Palestine fig., L. R. COX 119.—*C. cchinatum, edule*, FORREST 289.

†*Chartoconcha postcimmaria* sp. n. Upper Pliocene Georgia, Caucasus, DAVIDACHVILI Bull. Mus. Géorgie Tiflis 7 1933 p. 113 pl. ii f. 22, 23.

†*Conocardium kaninense* sp. n. Permian Kanin peninsula, Russia, FREDERICKS Trans. Arctic Inst. Leningrad 13 1934 p. 38 pl. i f. 4-7.

†*Dicerocardium mediofasciatum, dolomiticum*, PARONA 710.

†*Didacna medcae* sp. n. pp. 108, 117 pl. i f. 1-3; *m. celaeno* var. n. pp. 109, 117 pl. i f. 4-11; *exlex* pp. 110, 118, pl. i f. 12-13, Upper Pliocene, Georgia, Caucasus, DAVIDACHVILI Trav. Mus. Géorgie Tiflis 7 1933.

†*Didacnomya phasiaca* sp. n. Upper Pliocene, Georgia, Caucasus, DAVIDACHVILI Bull. Mus. Géorgie Tiflis 7 1933 pp. 114, 118 pl. ii f. 10-16.

†*Laevicardium (Laevicardium) lobulatum* (Desh.) figs. 4a, b, *L. (L.) tegalense* sp. n. Tertiary Java, OOSTINGH Ingenieur in Ned. Indie 5 1934 p. iv 76, fig. 1-3.

†*Limnocardium misargyridae* sp. n. Upper Pliocene Georgia, Caucasus, DAVIDACHVILI Trav. Mus. Géorgie Tiflis 7 1933 p. 111 pl. ii f. 19-21.—*Limnocardium* figs., POLJAK & SUKLJE 752.

†*Monodacna pleonexia* sp. n. Upper Pliocene Georgia, Caucasus pp. 111, 119 pl. ii f. 1-6; *donacoides* Andrus. *postdonacoides* "var. n." pp. 113, 119 pl. ii f. 8-9, DAVIDACHVILI Trav. Mus. Géorgie Tiflis 7 1933.—*M. lebedinzevi* Andrus. *sub-lebedinzevi* var. n., DAVIDACHVILI Trav. Mus. Géorgie 7 1933 pp. 112, 120 pl. ii f. 7.

†*Onestia* subgen. n. of *Integricardium* Rollier, type *Laevicardium onestae* McLearn, McLEARN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 152 pl. ii f. 8-10.

†*Prosodacna postduabica* sp. n. Upper Pliocene Caucasus, DAVIDACHVILI Bull. Mus. Géorgie Tiflis 7 1933 p. 115 pl. ii f. 17, 18.

†*Protocardia picardi* p. 242; *P. silicea* p. 245 pl. xiii f. 133, 134 spp. n. Cretaceous Syria, BLANCKENHORN Palaeontographica Stuttgart, 81A 4-6 1934.—*P. anglica* Woods, *bulgarica* var. n. Cretaceous Bulgaria, BONÉV Z. Bulgar. geol. Ges. Sofia 5 3 1933 p. 230.—*P. alcesiana* sp. n. Lower Cretaceous Northern Alberta, McLEARN Trans. Roy. Soc. Canad. (3) 27 4 1933 p. 151 pl. ii f. 14-16.

Tridacna fig., BOUTAN 123.

†*Tridacna mbalavuana* sp. n. Quarterly Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 185 pl. xxxi f. 2, 3.

CHAMACEA.

†*Agria garumnica* sp. n. Garumnien Pyrenees p. 171 f. 1-5; *A. moroi* Vidal figs., ALIBERT Bull. Soc. Hist. nat. Toulouse 65 1 1933.—*A. darderi* sp. n. Aptien Gata to Xalo (Prov. of Alicante, Spain), ASTRE Bull. Soc. géol. Fr. (5) 3 1-2 1933 p. 103 f. 1-5.

†*Agriopleura douvillei* sp. n. p. 311 f. 17; *d. rayensis* var. n. p. 313 f. 18, Cretaceous Puebla Mexico, MUELLERRIED An. Inst. Biol. Mexico 4 3-4 1933.

†*Biradiolites acuticostatus galloprovincialis* figs., KLINGHARDT 491.—*B. adhaerens* figs., MACGILLAVRY 585.

†*Bournonia judaica* pl. xii f. 107-109 j. *laevis* pl. xii f. 110, sp. et var. n. Cretaceous Syria, BLANCENHORN Palaeontographica Stuttgart 81A 4-6 1934.

†*Caprina parvula* sp. n. Cretaceous France, DOUVILLÉ & O'GORMAN Bull. Soc. géol. Fr. (5) 3 3-4 1933 pp. 301, 303 pl. xii f. 1.

Chama macrophylla, HOPKINS 427.

†*Eoradiolites lyratus* figs., KELLER 475.

†*Hippurites* (*Vaccinites*) *orientalis* p. 83, *ultimus* p. 83 spp. n. H. (V.) *loftusi timacensis* var. n. pp. 128, 130 f. 29, Cretaceous Serbia, MILOVANOVIC Bull. Serv. géol. Roy. Yougoslavie Beograd 3 2 1934.—*H. (Hippuritella) syriaca* sp. n. Cretaceous Syria, VAUTRIN Notes & Mémoires 1933 p. v f. 1, 2.—*H. (Orbignya) praebioculata* figs., *caniculata*, *rennensis*, ASTRE 49.—*H. (Orbignya) sublaevis*, *socialis*, *microstylus*, KLINGHARDT 491.—*H. (Orbignya) tirolica*, *requieni*, KLINGHARDT 492.—*Hippurites*, RICHTER 799.

†*Lapeirousia jouanneti*, KELLER 475.

†*Lapeirousia syriaca* sp. n. Cretaceous Syria, VAUTRIN Notes & Mémoires 1933 p. 31 pl. i f. 1, pl. ii f. 1-3, pl. iii f. 1, 2.

†*Medeella paronai* sp. n. Cretaceous Europe, WIONTEK 80 Palaeontographica Stuttgart 1-3 1934 p. 22 f. 16, pl. i f. 4, 5.—*Medeella* [subgen. n. of *Eoradiolites* Parona 1923 Att. R. Acc. Sc. Torino 59 p. 143], *gracilis* sp. n. Cretaceous

Europe, WIONTEK Palaeontographica Stuttgart 80 1-3 1934 pp. 1, 24 f. 17, pl. i f. 6-8.

†*Monopleura* (*Himeraelites*) *klingshardti* p. 316; *M. (H.) ochoterenai* p. 318 f. 21; *M. (H.) aguilerai* p. 319 f. 22; (*M. (H.) texcalensis* p. 322 f. 24; *M. (H.) felixi* p. 323 f. 25; *M. (H.) mexicana* p. 325 f. 26; *M. (H.) modellini* p. 326 f. 27; *M. (H.) zapotitlensis* p. 327 f. 28; *M. (H.) paronai* p. 328 f. 29, spp. n. Cretaceous Mexico, MUELLERRIED An. Inst. Biol. Mexico 4 3-4 1933.

†*Neoradiolites serbicus* pp. 87, 88 [orientalis résumé p. 142] gen. et sp. n. Cretaceous Serbia, MILOVANOVIC Bull. Serv. géol. Roy. Yougoslavie Beograd 3 2 1934.

†*Orbignya pacifica* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 48 pl. viii f. 1, 2.

†*Paronella* subgen. n. of *Eoradiolites* (*Distefanella*) for *P. volzanensis* sp. n. Cretaceous Europe, WIONTEK Palaeontographica Stuttgart 80 1-3 1934 pp. 26, 27 f. 19, pl. i f. 10.

†*Pironaea corrugata transitoria* p. 76 f. 4, 8-10, var. n. Cretaceous Serbia, MILOVANOVIC Bull. Serv. géol. Roy. Yougoslavie Beograd 3 2 1934.—*P. machnitschi* sp. n. Cretaceous Europe, WIONTEK Palaeontographica Stuttgart 80 1-3 1934 p. 9, fig. 1, pl. i f. 1.

†*Praelapeirouseia* [subgen. n. of *Sauvagesia*] *kossmati* sp. n. Cretaceous Europe, WIONTEK Palaeontographica Stuttgart 80 1-3 1934 pp. 1, 28 f. 20, pl. i f. 11.

Pseudochama granti sp. n. Catalina I., California, STRONG Nautilus Philad. 47 4 1934 p. 137 pl. viii f. 6, 7.

†*Pseudopolyconites cerbicus* gen. et sp. n., *P. parvus*, *P. ovalis* spp. n. p. 87, résumé p. 142, Cretaceous Serbia, MILOVANOVIC Bull. Serv. géol. Roy. Yougoslavie Beograd 3 2 1934.

†*Radiolites mamillaris*, KLINGHARDT 491.—*Radiolites*, RICHTER 799.

†*Sauvagesia sanfilippoi* p. 5 f. 1-3; *S. checcchiai* p. 6 f. 4-6, spp. n. Cretaceous Tripolitania, PARONA Boll. Com. geol. Ital. 53 2 (1932) 1933.—*S. tenuivalvata* sp. n. Cretaceous Europe, WIONTEK Palaeontographica Stuttgart 80 1-3 1934 p. 18 f. 13.—*S. garianica* Parona in West Tibet, KLINGHARDT 492.

†*Sphaerulites bacevicensis* sp. n. Cretaceous Servia, MILOVANOVIC Bull. Serv. géol. Roy. Yougoslavie Beograd 3 2 1934 p. 87.

†*Trechmannella persica* sp. n. Upper Cretaceous Bakhtiari County, Persia, L. R. Cox Proc. Malac. Soc. London 21 1 1934 p. 43 et seq. pls. iv-vii text-figs. 1-27.—*Trechmannella ? morgani* (Douvillé), L. R. Cox 201.

†*Toucasia carinata orientalis* var. n. Lower Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido p. 164 pl. xxi (i), xxii (ii).

†*Vaccinites (Pironaea) syriaca* sp. n. Cretaceous Syria, VAUTRIN Notes et Mémoires 1933 p. 39 pl. iv f. 1, pl. v f. 3.

MYACEA.

†*Corbula bouvreti* sp. n. Jurassic Madagascar, BESAIIE Ann. Géol. Serv. Mines Madagascar 2 1932 p. 39 pl. v f. 2, 2a.—*C. bhamdunensis* sp. n. Cretaceous Syria, BLANKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 264 pl. xiv f. 170, 172.—*C. (Eucharis) roedereri* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 4 1934 p. 29 pl. iv f. 10a, b.—*C. montegrandsensis* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 57 pl. vi f. 7.—*C. (Cuneocorbula) triangulata, gorizdroae, asiatica, erigera* "n. spp." [nomm. nud.], VIALOV 1002.

Cultellus pellucidus anatomy figs., GRAHAM 356.—*C. pellucidus*, LÖNNBERG 574.

†*Edmundia yashioensis* sp. n. Permian China, GRABAU Palaeont. sinica B8 3 1934 p. 154 pl. xi f. 5.

Ensis siliqua, KRÜGER 507.

Gari tellinella muscular system figs., GRAHAM 355.—*G. tellinella* anatomy figs., GRAHAM 356.—*G. tellinella, ferroensis* distribution in N. Sea, STEPHEN 902.

Garidae S. Australia, COTTON 189.

Gastrochaena frondosa sp. n. Pt. Adelaide Creek, S. Australia, COTTON Rec. S. Aust. Mus. Adelaide 5 2 1934 p. 177 f. 1, 2.

†*Gastrochaena dubia* boring habits, KÜHNELT 516.

†*Goniomya disangula* sp. n. Permian Madagascar, ASTRE Ann. Géol. Serv. Mines Madagascar 4 1934 p. 83 pl. x f. 15, 17.—*G. subarchiaci* sp. n. Cretaceous Japan, NAGAO J. Fac. Sci. Univ. Hokkaido Geol. & Min. 2 3 1934 p. 215 pl. xxix (vii) f. 2, 3.

†*Hippurites*, LAFFITTE 541.

†*Irus mamaricus* sp. n. Quaternary Fiji, LADD Bull. Bishop Mus. Honolulu 119 1934 p. 190 pl. xxiii f. 8, 9.

Mya arenaria, HAAS 378.—KLÄHN 488.—KRÜGER 507.—VÄLIKANGOS 990.

Panomya ampla fig., KURODA & KOBA 526.

†*Panopaea berryi* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 58 pl. vii f. 3.—*Panopaea cancellata* Sow. (= *Tellina wroblewskyi* Bock) type of *Tellina (Rostrimacoma* subgen. n.) Tellinidae q.v., SALISBURY 828.

Panope webbi p. 117 pl. i f. 2; *P. murrayensis* p. 118 pl. ii f. 4, Cretaceous British Columbia, WARREN Trans. Roy. Soc. Canada. (3) 27 4 1933.

†*Pleuromya yukonense* sp. n. Jurassic Yukon, LEES Trans. Canada. Inst. Toronto 20 1 1934 p. 44 pl. v f. 6, 7.

†*Psammobia uniradiata fabrianensis* var. n. (= *Tellina uniradiata* Brocchi 1814) Miocene Italy, LIPPARINI Boll. Com. geol. Ital. 59 5 1934 p. 6 pl. v f. 1a, b.

Solecortus scopula fig. *chamasolen*, GRAHAM 356.

Solen, silk from, fig., ALLAN 21.—*S. siliqua*, RAUCCI 775.

Solenidae S. Australia, COTTON 189.

ADESMACEA.

Bankia gabrieli sp. n. Port Adelaide S. Australia, COTTON Rec. S. Aust. Mus. Adelaide 5 2 1934 p. 178 f. 5-7.—*B. sibirica* sp. n. Siberia, ROCH Zool. J. Moscow 13 1934 p. 487 f. 2.

Teredinidae, S. Australia, COTTON 189.

Teredinae of Soviet Union, ROCH 801.

Teredo navalis sex change, COE 167.—*T. sinensis* fig., ROCH 801.

†*Turnus lacombi* sp. n. Lower Cretaceous, Northern Alberta, McLEARN Trans. Roy. Soc. Canada. (3) 27 4 1933 p. 154 pl. ii f. 1, 2.

Zachsia zenkerwitschi, *lignavi* figs.,
ROCH 801.

ANATINACEA.

†*Anatina marullensis* mut. & nov.
form., BONČEV. Z. Bulgar. geol. Ges.
Sofia 5 3 1933 p. 284 pl. ii f. 11.—*A.*
anchana sp. n. Cretaceous Peru,
OLSSON Bull. Amer. Paleont. Ithaca 20
69 1934 p. 38 pl. v f. 4.

Anatina bernicula, *olorina*, *liautaudi*,
marilina, *boschasina*, *peroni*, *laterna*,
truncata, *cumingi*, *imperfecta* figs. of
types, LAMY 551.

†*Brechites coronatus* sp. n. p. 265
pl. xxii f. 1-4 and text-figs. 1-2; *B.*
pulcher fossile n. f. p. 269 pl. xxii
f. 5-6 and text-fig. 3 Tertiary East
Indies, SIEVERTS Palaeont. Z. Berlin
16 3-4 1934.

Calopodium v. *Pandora*, WINCK-
WORTH 1042.

Clidiophora Cpr., LAMY 550.

Coelodon Cpr., LAMY 550.

Foveadens Dall, LAMY 550.

†*Goniomya matonabbei* sp. n. Lower
Cretaceous, Northern Alberta,
McLEARN Trans. Roy. Soc. Canad. (3)
27 4 1933 p. 147 pl. i f. 8.

Heteroclidus Dall, LAMY 550.

Hiatellidae S. Australia, COTTON 189.

Kennerleya Cpr., LAMY 550.

†*Myopholas peruviana* sp. n. Cre-
taceous Peru, OLSSON Bull. Amer.
Paleont. Ithaca 20 69 1934 p. 36 pl. v
f. 7.

†*Neaeroporomya argentea* fig., WRIG-
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—*Pandora inaequalis* (L.), LAMY 550.

†*Pandora vanwinkleae* sp. n. Upper
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†*Pholadomya baixaleitensis* sp. n.
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taceous British Columbia, WARREN
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†*Pleuromya goldfussi* nom. nov. for
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†*Liopistha* (*Psilomya*) *allani* sp. n.
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†*Psilomya peterponti* p. 148 pl. ii
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pl. iii f. 2, spp. n. Lower Cretaceous
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Eledone cirrosa occurrences in North Sea, ADAM 6.—*E. moschata*, STUDNITZ 919.

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Polypus vulgaris, BEISSENHIRTZ & HAAS 80.

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Spirula alimentary canal, KERR 478.—*S. parasitic ciliate* of, JEPPE 456.

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Todaropsis eblanae occurrences in North Sea, ADAM 6.

Thysanoteuthis rhombus, BARNARD 72.

Tremoctopus violaceus, BARNARD 72.—*T. violaceus* BUDDENBROCK 133.

Watasenia scintillans, OKADA, TAKAGI & SUGINO 686.

Cephalopoda.

(b) FOSSIL.

†*Acanthoceras rothomagensis*, FORTANIER 290.

†*Acanthoscaphites nodosus crassus* var. n. p. 15 f. 10, 11; *A. duplicinodosus* sp. n. p. 17 f. 12, 13; Upper Cretaceous Montana U.S.A., CORYELL & SALMON Amer. Mus. Novit. N.Y. 746 1934.

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†Actinoceratidae of North Greenland, TEICHERT 943.

†*Aegoceras taylori bornholmensis* var. n. Lias Bornholm Baltic, HÖHRE Abh. geol. palaeont. Inst. Greifswald 12 1933 p. 52 pl. xii f. 1-7.—*A. (Amblyoceras) telegdi-rothis* sp. n. Jurassic Hungary, Kovács Abh. Min. Geol. Inst. Kgl. Ung. Stephan Tisza Univ. Debrecen 1 1931 p. 42 f. 3.

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†*Amblyoceras planicostatum sziladyi* var. n. Middle Lias Bakony, Hungary, KOVÁCS Mag. K. földt. Int. Evk. Pest. 64 7-9 1934 p. 258 pl. xvi f. 8-9.

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Ammonites of Attock district, India, SPATH 892.—Ammonites of Balkans, STEFANOV 899.

†*Ammonites stobaei* Nils. fig., HAD-DING 386.

†*Amphicyrtoceras bownockeri* p. 152 pl. xxxvii f. 1a-c, p. xxxvi f. 2, Ohio; *A. grimsbyense* p. 153 pl. xxxviii f. 3a, b, Ontario; *A. reedsi* p. 158 pl. xxxvi f. 3a-c, Wisconsin; *A. welchi* p. 159 pl. xxxv f. 4a, b Ohio; *A. williamsi* p. 160, pl. xxxvii f. 3a-c Ontario; spp. n. *A. orcas latum* p. 155 pl. xxxv f. 1 var. n.—Silurian, FOERSTE J. Sci. Labs. Denison Univ. 29 1934.—*A. benedictae* sp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934 p. 72 pl. vii f. 3a, b.

†*Anahedenstroemia himalayica* = *Hedenstroemia moysisoviesi* Diener *partini* nom. nov. [sp. n.] Trias Himalayas p. 218; *A. evoluta* sp. n. Salt Range p. 219; SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Anaptychus acutapicalis* nom. nov. = ? *Arietites conybeari* Wright p. 77; *sellaeformis* "nom. nov." p. 78; *s. bicarinata* var. n. p. 79; *carapaxi* nom. nov. = *A. laqueus* Schlumberger 1868, p. 80 pl. vi f. 1-4; *c. angusta* var. n. p. 83 pl. vi f. 12-14; *peltarion* nom. nov. p. 84 pl. vi f. 5; *pala* nom. nov. p. 85; *mitraeformis* nom. nov. p. 87, *listron rostrata* "nom. nov. et var. nov." p. 88 pl. vi f. 15, 6-9; *rectinternus latior* nom. et var. nov. pp. 92-93; *dorsatensis* forma n. p. 94 pl. vi f. 10-11; *latexcisus* nom. nov. p. 95; Lias Europe, TRAUTH N. Jahrb. Geol. Paläont. Stuttgart 73 1 1934.—†*Anaptychus likensis* n. n. var. n. *curvexcisa*; *A. domanicus* n. f. d. *asymmetrical*, d. *bipartita*, vars. n. *A. clarkei* n. n. c. *bipartita* var. n., *A. woodwardi* n. n., *A. ichtensis bipartita* var. n., *A. tetschorae* n. f. *A. subtrigonalis*, *timanus* n. ff. *A. chemungensis*, *ruedemanni*, *naplesensis*, *hercynicus*, *poragensis* n. n., TRAUTH 970.

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†*Anolcites* (?) *kitakamicus* sp. n. Trias Japan, DIENER Denkschr. Akad. Wiss. Wien 92 1916 p. 17 pl. ii f. 2.

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†*Arctoprioceras tyrrelli* sp. n. Trias Spitzbergen, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 342.

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†*Aulacoceras sulcatum* variation diagrams, GHEYSELINCK 335.

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†*Belemnoteuthis antiqua* (restoration), BOUTAN 123.

†*Beloitoceras heterocurvatum* sp. n. Ordovician Oslo, STRAND Norsk. Geol. Tids. Oslo 14 1-2 1934 p. 76 pl. x f. 8-11.

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†*Beyrichoceras phillipsi* p. 286 pl. xxiii f. 1, 2; *micronotoides* p. 290 pl. xxi f. 4; *submicronotum* p. 291 pl. xxiii f. 5, 6, text-fig. 19; *rectangularum* p. 294 text-figs. 15-17; *parkinsoni* p. 295 text-figs. 12-14; *umbilicatum* p. 296 text-figs. 8-11 spp. n. Carboniferous England, BISAT Proc. Yorks. Geol. Soc. Leeds 22 4 1934 (vide etiam pp. 288, 289 n.n. et ff.).

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Cephalopoda evolution of, SCHINDEWOLF 840.

†*Ceratites haideni* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 77 pl. iii f. 2, 3. —*C. trinodosus angusta* var. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 81 pl. iii f. 6. —*C. trinodosus, cordevolicus* figs., BERNDT 93. —*C. spinosus, nodosus, intermedius, dorsoplanus, semipartitus*, KLEINSORGE 490.

†*Charactoceras estonicum* sp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934 p. 28 pl. ii f. 5, pl. 7 f. 1.

†*Chisiloceras* gen. n. *dainelii* sp. n. p. 69 pl. xiv f. 1. —*C. murinellii* sp. n. p. 68 pl. xiv f. 2-4, xv f. 1-3, *C. m. approximatum* f. n. p. 69 pl. xv f. 4 Permian Caracorum, GORTANI & MERLA Sped. Ital. Filip. nell. Himalaia Bologna 5 1934.

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†*Coelogasteroceras thomasi* sp. n. Permian U.S.A., MILLER & CLINE J. Paleont. Sharon Mass. 8 3 1934 p. 286 pl. xxxix f. 26, 27.

†*Coloceras hyatti* p. 132 text-fig. 22, *C. greenii* p. 136 pl. vii f. 8, 9 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRA Nebraska Geol. Surv. Bull. 9 (2) 1933.

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†*Crioceras duvalii* fig., MAILLIEUX 596.

†*Cyclendoceras orientale* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 386 pl. x f. 1-5. —*C. norvegicum* p. 10 pl. i f. 2, pl. ix f. 1, *dubium*

p. 12, pl. ix f. 2 spp. n. Ordovician Norway, STRAND Nordsk. Geol. Tids. Oslo 14 1-2 1934.

†*Cycloceras densiannulatum* 419 pl. xxii f. 3-6, *taikakuense* 420 pl. xxii f. 1-2, pl. xxiii f. 5-6 pl. xxiv f. 4-6; *subchikunense* 422 pl. xx f. 7-8; *eccentrosiphonatum* 423 pl. xxxi f. 6-7 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Cymaceras schattenbergi* sp. n. Jurassic Europe, KÜHN Palaeont. Z. Berlin 15 4 1933 p. 319 fig. 1.

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†*Dactylioceras groenlandicum* sp. n. [nom. et fig.] Jurassic E. Greenland, ROSENKRANTZ Medd. Grønland 110 1 1934 pl. v f. 4, 5.

†Dagnoceratnae subfam. n. (Ammonoidea), SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 268.

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†*Desmoceras* (*Puzosia*) *retrocostata* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 2 1932 pl. i f. 9-11. —*D. (Latidorsella) diphyllodes besairiei* var. n. p. 50; *D. (Puzosia) barrabei* sp. n. p. 51 pl. vii f. 3-36 Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931.

†*Dichotomosphinctes* "sp. n." cf. *wachneri* Siemiradzki p. 11, SPATH 892.

†*Dieneroceras* gen. n. (Flemingitidae) type *Ophiceras dieneri* Hyatt & Smith 1905, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 123 f. 34a, b.

†*Diestoceras størmeri* p. 85 pl. ii f. 5; *isotolorum* p. 86 pl. ii f. 4; *acuminatum* p. 86 pl. ii f. 3; spp. n. Ordovician Oslo STRAND Norsk Geol. Tids. Oslo 14 1-2, 1934.

†*Dinarites bulgaricus* sp. n. Trias Balkans, BERNDT Ber. sächs. Akad. Wiss. 86 1 1933 p. 8 pl. ii f. 8.

†*Discoceras hyatti* p. 38 pl. ii f. 2, pl. v f. 3a, b; *roemeri* p. 43 pl. ii f. 6a, b, 7, pl. v f. 1, 2 spp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934.

†*Discoscaphites nicolleti saltgrassensis* var. n. Upper Cretaceous Colorado, ELIAS Bull. Univ. Kansas 34 5 1933 p. 326 pl. xxxvi f. 3a-c, pl. xl f. 1.

†*Discosorus austini* p. 174 pl. xxxiv f. 1a, b, 4a-c, pl. xxxv f. 5 Ohio; *D. perepansum* p. 175 pl. xxxiv f. 5a, b Ohio; *D. ? lyonsense* p. 178 pl. xxxiv f. 2a, b, Iowa, FOERSTE J. Sci. Labs. Denison Univ. 29 1934.

†*Dolorthoceras dubium* p. 95 pl. i f. 10, 11; *ciscoense* p. 96 pl. i f. 1-3 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRÉ Nebraska Geol. Surv. Bull. 9 (2) 1933.

†*Domatoceras moorei* sp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRÉ Nebraska Geol. Surv. Bull. 9 (2) 1933 p. 221 pl. xxi f. 1-2.—*D. williamsi* sp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. 16 3 1934 p. 246 pl. xvi f. 4, pl. xvii f. 1-4, pl. xviii f. 1.

†*Douvilléceras irregulare* sp. n. Cretaceous Maio Cape Verde Islands, STAHLCKER N. Jahrb. Geol. Paläont. Stuttgart 73 2 1934 p. 274 pl. xii f. 2.

†*Dryochoceras* a synonym of *Sagittoceras*, MILLER 625.

†*Ectocyrtoceras* (?) *wilmingtonense* p. 147 pl. xxxiii f. 1a, b, 2; *E. (?) gibberosum* p. 148 pl. xxxii f. 4a, b, spp. n. Silurian Ohio; *E. billingsi* p. 150 pl. xl f. 1a-c sp. n. Silurian Ontario, FOERSTE J. Sci. Labs. Denison Univ. 29 1934.

†*Ekwanoceras ? austini* sp. n. Silurian Wilmington, Ohio, FOERSTE J. Sci. Labs. Denison Univ. 29 1934 p. 126 pl. xxxvi f. 1a, b.

†*Endoceras alticameratum* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 384 pl. xv f. 6-8.—*E. seticornium* sp. n. Ordovician Norway, STRAND Nordsk. Geol. Tids. Oslo 14 1-2 1934 p. 8 pl. i f. 1a, b.

†*Eophyllites refractus* nom. nov. = *Monophyllites hara* Arthaber 1908 non Diener: and *M. (Ussurites) hara* Diener (a) 1915 p. 295; *E. variabilis* nom. nov. = *M. pitamaka* Arthaber non Diener p. 296, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Epacrochordiceras* subgen. n. (*Acrochordiceras*) type, *A. portisi* Martelli 1906, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 401 pl. xviii f. 2a, b.

†*Ephippiorthoceras plicatuloides* p. 16 pl. iii f. 1-2; *frognøyense* p. 17 pl. iii f. 4 spp. n. Ordovician Norway, STRAND Norsk. Geol. Tids. Oslo 14 1-2 1934.

†*Epihedestroemia* gen. nov. (Hedenstroemiidae) type *Hedenstroemia skike-tarensis* Arthaber, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 222.

†*Erycites rotundiformis* p. 24 pl. iii f. 6, *elaphus* p. 25 pl. iv f. 5; *robustus* p. 25 pl. ii f. 6, pl. iii f. 7: *crassiventris* p. 26 pl. iv f. 1; *brevispira* p. 27 pl. iv f. 2; spp. n. Jurassic Europe, MERLA Palaeontogr. ital. Siena 34 (1933) 1934.

†*Euflemingites* gen. n. (Flemingitidae) type *Flemingites guyerdetiformis* Welter 1922 Trias Timor, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 115 f. 29.

†*Euloxoceras greenei* gen. et sp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRÉ Nebraska Geol. Surv. Bull. 9 (2) 1933 p. 99 pl. i f. 12-15.

†*Euophioceras* gen. n. type *Lituites* "[*Ophioceras*, *Ophidioceras*]" simplex Barrande, MILLER Univ. Stud. Nat. Hist. Iowa City 14 4 1932 p. 17 pl. ii f. 3-7.

†*Eupleuroceras bellulum* gen. et sp. n. Carboniferous Pennsylvania, MILLER & CLINE J. Paleont. Sharon Mass. 8 2 1934 pp. 174, 179, 180 pl. xxviii f. 19-23.

†*Euryrizoceras anguloseptatum* sp. n. Silurian Ohio, FOERSTE J. Sci. Labs. Denison Univ. 29 1934 p. 143 pl. xxx f. 3a, b.

†*Galtoceras* gen. n. p. 169 type *Cyrtoceras arcticameratum* Hall, *G. ruedemanni* sp. n. p. 170 = *Cyrtoceras arcticameratum* Clarke & Ruedemann. Guelph fauna in N. York mem. 5 N.Y. Mus. p. 87 pl. xvi f. 1-5 (not pl. xv f. 1, 2), FOERSTE J. Sci. Labs. Denison Univ. 29 1934.

†*Gastrioceras hirsutum* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 14 pl. ii f. 6, 7.—*G. brevicostatum* pp. 292, 298 f. 1-4; *stenolobatum* pp. 292, 299 f. 5-7; *williamsi* pp. 292, 301 f. 8-10; spp. n. Permian U.S.A., MILLER & CLINE J. Paleont. Sharon Mass. 8 3 1934 pl. xxxix. —*G. mills* sp. n. Carboniferous Pennsylvania, MILLER & CLINE J. Paleont. Sharon. Mass. 8 2 1934 pp. 174-177, pl. xxviii f. 7-9.

†*Gastrolites canadensis*, *allani*, *stantoni* *anguinus*, *skikeri*, *kingi*, fig., McLEARN 593.

†*Gaudryceras tenuilicatum*, NAGAO & SAITO 664.

†*Geisonoceras hyatti* 415 pl. xxiii f. 3-4; *abruptum* 416 pl. xx f. 3 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.—*G. foerstei* p. 13 pl. iii f. 9; *heintzi* p. 14 pl. iii f. 13; *herøyense* p. 15 pl. iii f. 16 spp. n. Ordovician Norway, STRAND Nordsk. Geol. Tids. Oslo 14 1-2 1934.

†*Glyphioceras pauperum* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 14 pl. ii f. 5.

†*Glyptophiceras ophioides* sp. n. Trias Kashmir, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 82 pl. xii f. 1.

†*Gonatocyrtoceras* type *Cyrtoceras heteroclytium* Barrande, FOERSTE 286.

†*Goniatis* *maximus* p. 298 pl. xx f. 1, pl. xxi f. 2, 3, pl. xxii f. 1-6; *antiquatus* p. 302 text-figs. 1-3; *hudsoni* p. 303 pl. xvii f. 1, 2 text-fig. 4; *wedberensis* p. 304 pl. xxiv f. 3 text-fig. 7 spp. n. Carboniferous England, BISAT Proc. Yorks. Geol. Soc. Leeds 22 4 1934 (vide etiam pp. 288-289 nn. et ff.).

†*Goniceras occidentale* Hall fig. of restoration, SARDESON 829.

†*Gonioloboceras gracellenae* sp. n. Carboniferous Pennsylvania, MILLER & CLINE J. Paleont. Sharon. Mass. 8 2 1934 pp. 174, 175 pl. xxviii f. 14-18.

†*Grimsboceras* gen. n. type *Cyrtoceras clitus* Billings, FOERSTE J. Sci. Labs. Denison Univ. 29 1934 p. 129 pl. xl f. 2a, b.—*G. genuiflexum* p. 133 pl. xxxii f. 1a-c, 2a-c; *G. hillsboroense* p. 135 pl. xxxi f. 2a, b, 3, pl. xxxvi f. 4a, b; spp. n. Silurian Ohio, FOERSTE J. Sci. Labs. Denison Univ. 29 1934.

†*Gurleyites freboldi* sp. n. (Prionitidae) Trias Spitzbergen; SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 339.

†*Gymnites alpium* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 114 pl. vi f. 3.

†*Gyroleanites* gen. n. (Gyronitidae, Ammonoidea) type *Lecanites impressus* Waagen 1895, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 95.

†*Gyronites planissimus* (Koken MS.) sp. n. Trias Salt Range, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 92 pl. viii f. 4a, b.

†*Gyrophiceras* gen. n. (Gyronitidae, Ammonoidea) type *Lecanites gangeticus* (de Koninck) Waagen 1895, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 93 f. 20.

†*Hadoceras* gen. n. p. 68 (Jovillanidae) for *septocurvatum* sp. n. p. 68 pl. iii f. 10a, b. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934.

†*Hamites retrocostatus* p. 21 pl. iv f. 7, 7a; *H. annulatus* p. 22 pl. iv f. 8, 9 spp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 2 1932.

†*Hammatoceras dacquéi* p. 17 pl. ii f. 4 text-fig. 1; *renzi* p. 20 pl. ii f. 2 text-fig. 3; *partitum* p. 23 pl. ii f. 1 text-fig. 5; spp. n. Jurassic Sicily, KUHN N. Jahrb. Geol. Paläont. Stuttgart 72 1 1934.—*H. costulosus* p. 13 pl. i f. 3, 4; *fossai* p. 15 pl. ii f. 4; *dorsatum* p. 17 pl. iii f. 1; *discus* p. 18 pl. ii f. 1, 2; spp. n. Jurassic Europe, MERLA Palaeontogr. ital. Siena 34 (1933) 1934.

†*Hecticoceras ironense* sp. n. p. 24 pl. iv f. 9a, b; *H. melomphalum bonarellii* var. n. p. 31 pl. ii f. 3a, b; *H. lumeloides crassicostrata* var. n. p. 33 pl. iv f. 5; Jurassic Caucasus, CHIKHACHEV Trans. Geol. Prosp. Serv. U.S.S.R. 104 1933.

†*Hedenstroemiinae* subfam. n. Ammonoidea, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 215.

†*Helicoceras madagascariensis* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 2 1932 p. 18 pl. i f. 17-20.

†*Hemilecanites* gen. n. (Fam. in. sed. ? Xenoceltitidae) type *Lecanites discus* Arthaber, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 134 pl. xiii f. 7a-d.

†*Hemiprionites timorensis* nom. nov. [sp. n.] = *Anasibirites multiformis*, partim Welter p. 331; *H. garwoodi* sp. n. Trias Spitzbergen p. 336 pl. xvi. f. 1, 3, pl. xvii f. 3, 5; SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Heteroceras multicostatum* sp. n. Cretaceous Maio, Cape Verde Islands, STAHLCKER N. Jahrb. Geol. Paläont. Stuttgart 73 2 1934 p. 282 pl. xiii f. 10, 11.

†*Hibolites weberi* p. 55 pl. iii f. 1-3; *longiscissus* p. 56 pl. iii f. 6, 7; *compressus* p. 58 pl. iv f. 1-5; spp. n. Jurassic Misol, East Indies, STOLLEY N. Jahrb. Geol. Paläont. Stuttgart 73 1 1934.—*H. semicanaliculatus*, *longus moderatus*, *brevis* figs., ROUCHADZE 815.—*H. (Hastites ?)* cf. *Claviger* Waagen figs. p. 25, SPATH 892.

†*Hildoceras falciplacatum*, *ambiguum laevicosta*, *curionii*, *capellinii turgidulum*, *geyeri* figs., DESIO & AIRAGHI 224.—*Hildoceras* figs., DESIO & AIRAGHI 224.

†*Hollandites nodai* sp. n. Trias Japan, DIENER Denkschr. Akad. Wiss. Wien 92 1916 p. 12 pl. i f. 3.

†*Hudlestonia villaini* p. 422 pl. xx f. 1, 2; *raguini* p. 423 pl. xxi f. 1, 2, spp. n. Jurassic France, GÉRARD & BICHELOU Bull. Soc. géol. Fr. (5) 3 5-6 1933.

†*Hysterocheras subbinum* sp. n. p. 481 pl. lii f. 5-7, liii f. 6, 7, lvi f. 3, 4; *H. carinatum ascendens* mut. n. p. 482. pl. lvi f. 11; *H. capricornu* p. 490 pl. liv f. 5, 6 fig. 171; *pseudocornutum* p. 491 pl. li f. 4a, b, lv f. 3a, b, 4a, b fig. 172; *H. simplicicosta* p. 494 pl. lvi f. 5a, b; *serpentinum* p. 495 pl. lvi f. 2a, b Gault Britain, SPATH Monogr. Palaeont. Soc. London 86 xi 1934.

†*Inyoitinae* subfam. n. Ammonoidea, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 136.

†*Japonites broilii* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 86 f. 15 pl. iy f. 6, 7.

†*Kashmiritidae* fam. n. (Ammonioidea), SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 236.

†*Kawasakiceras densistriatum* gen. et sp. n. Middle Ordovician Korea KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 pp. 396, 397 pl. xiv f. 6-7.

†*Kayoceras* gen. n. type *Discosorus biconoideus* Thomas p. 183 pl. xxxi f. 1a-c, pl. xli f. 2; *K. thomasi* sp. n. Silurian Iowa p. 186 pl. xli f. 3, FOERSTE J. Sci. Labs. Denison Univ. 29 1934.

†*Kiaeroceras* gen. n. p. 97 (Phragmoceratidae) type *frogøyense* sp. n. p. 97 pl. ix, pl. xii f. 2a, b; *herøyense* sp. n. p. 99 pl. ix f. 5 Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934.

†*Knightoceras* p. 218 type *missouriense* p. 219 gen. et sp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. 16 3 1934 pl. xv f. 6-8.

†*Kochoceras yokusenense* sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 451 pl. xxix f. 1-4.

†*Koninckites truncatus* nom. nov. = *K. davidsonianus* Waagen 1895 non Koninck p. 152 f. 44; *apertus* p. 154 pl. xi f. 1; *occlusus* p. 154 pl. v f. 1; spp. n. Trias India, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Kossmaticeras pseudosotalinus* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Geol. Serv. Mines Madagascar 1 1931 p. 18 pl. i f. 7, 7b.

†*Kotoceras* gen. n. p. 391 type, *typicum* p. 392 pl. xi f. 1-4; *cylindricum* p. 393 pl. xii f. 7-9, pl. xiii f. 8-9; *multiseptum* p. 394 pl. xii f. 1-2 pl. xiii f. 1-3 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Lanceolitinae* subfam. n. (Ammonioidea), SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 226.

†*Leptoceras* (?) *spinosum* sp. n. Cretaceous Maio, Cape Verde Islands, STAHLCKER N. Jahrb. Geol. Paläont. Stuttgart **73** 2 1934 p. 281 pl. xiii f. 8.

†*Lindstroemoceras* gen. n. type *L. [Ascoceras] dolium* Lindström, MILLER Stud. Nat. Hist. Iowa City **14** 4 1932 p. 32 pl. v f. 1-6.

†*Lioceras tyrrenum* sp. n. Jurassic, Sicily, KÜHN N. Jahrb. Geol. Paläont. Stuttgart **72** 1 1934 p. 25 pl. ii f. 3 text-fig. 5.

†*Ludwigia*, LÖRCHER 575.

†*Ludwigella* (*Darellia*) *polita* Buckman in Lincolnshire Limestone, BATTERS 75.

†*Lyckholmoceras norvegicae* p. 89 pl. ii f. 1a, b, 2; *constrictum* p. 91 pl. viii, f. 5, pl. xiii f. 5 spp. n. Ordovician Oslo STRAND Norsk Geol. Tids. Oslo **14** 1-2 1934.

†*Lytoceras angustoumbilicatum* p. 253 pl. xvi f. 6; *L. kávdense* p. 255 pl. xvi f. 7 spp. n. Middle Lias Bakony, Hungary, KOVÁCS Mag. K. földt. Int. Evk. Pest. **64** 7-4 1934.—*L. fimbriatum* pl. vii, ROSENKRANTZ 808.

†*Mammites subnodosoides* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar **3** 1933 p. 70 pl. vi f. 6.

†*Mandaloceras austini* sp. n. Silurian Ohio, FOERSTE J. Sci. Labs. Denison Univ. **29** 1934 p. 187 pl. xxx f. 3.

†*Manuariceras jacobii* sp. n. Albian Madagascar, BESAIRIE Ann. Géol. Serv. Mines Madagascar **2** 1932 p. 46 pl. v f. 3, 3a.

†*Medlicottia illius* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo **52** 1930 p. 14 pl. ii f. 3, 4.

†*Megaglossoceras* gen. n. type *Nautilus montgomeryensis* Hyatt p. 118; *M. magnum* p. 120 text-figs. 20, 21; *M. rectilaterale* p. 125 pl. v f. 1-3; *M. johnsoni* p. 127 pl. v f. 4 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRA Nebraska Geol. Surv. Bull. **9** (2) 1933.—*M. pristinum* sp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. **16** 3 1934 p. 214 pl. xii f. 1, 2 text-figs. 1C, 1D.

†*Metacoceras nodosum* p. 186 pl. xv f. 5-7; *M. coloradoense* p. 189 pl. xv f. 10; *M. sublaevis* p. 190 pl. vii f. 1-3

spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDRA Nebraska Geol. Surv. Bull. **9** (2) 1933.—*M. mutabile* p. 226 pl. xvi f. 1, 2; *biseriatum* p. 229 pl. xvi f. 5-7, spp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. **16** 3 1934.

†*Metahedenstroemia* gen. n. (Hedenstroemiidae) type *Hedenstroemia kastriolae* Arthaber, SPATH Catal. Foss. Cephalopoda Brit. Mus. **4** 1934 p. 223.

†*Metengonoceras* sp. n. French Niger (to be described in Arch. Mus.), FURON 302.

†*Metussuria* gen. n. (Ussuriidae) type *Ussuria waageni* Hyatt & Smith 1905, SPATH Catal. Foss. Cephalopoda Brit. Mus. **4** 1934 p. 214 f. 66.

†*Mixochaonites* Hyatt should not include *Volborthella*, *Ophidioceras*, *Mesoceras*, MILLER 627.

†*Mixosiphonoceras norvegicum* sp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo **14** 1-2 1934 p. 66 pl. x f. 3, 4a, b, pl. xiii f. 6, 7.

†*Mooreoceras normale* sp. n. p. 87 pl. ii f. 5-7; *M. n. angusticameratum* var. n. p. 89 pl. ii f. 8-10; *M. bakeri* sp. n. p. 92 pl. ii f. 11-13 Carboniferous U.S.A., MILLER, DUNBAR & CONDRA Nebraska Geol. Surv. Bull. **9** (2) 1933.—*M. normale uniconstrictum* var. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. **16** Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. **16** 3 1934 p. 204 pl. xi f. 7, 8.

†*Morphoceras* (*Ebrayiceras*) *gauteri* sp. n. Bathonian Oran, N. Africa, ROMAN Bull. Soc. géol. Fr. (5) **3** 1-2 1933 p. 67 pl. ii f. 13, 14a, b.

†*Myloceras besairiei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar **2** 1932 p. 25 pl. iii f. 11-20.

†*Nautilus butonensis* sp. n. Tertiary Waisin E. Indies, MARTIN Leidsche Geol. Medeel. Leiden **6** 1 1933 pp. 10, 30 pl. v f. 34, 34a.—*N. radiatus*, *neckeri-anus*, figs., *N. tsalsithelensis* sp. n. Aptien E. Georgia Caucasus, ROUCHADZE Trav. Mus. Georgie **6** 1931 p. 135 pl. iii.—*N. piersantii* sp. n. Bartonian Italy, SERGIO Studi Trentini Sci. Nat. Trento **14** 3 1933 p. 203 pl. ii f. 4a, b.

†*Neogastrolites selwyni* sp. n. St. John's shale British Columbia, McLEARN Trans. Roy. Soc. Canad (3) 27 4 1933, p. 24 pl. ii f. 3, pl. iii f. 1.—*N. cornutus* fig., McLEARN 593.

†*Nybyoceras troedssoni* sp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934 p. 61 pl. i f. 3a, b.

†*Oppelia subradiata* fig., FABIANI & RUIZ 257.

†*Ormoceras koraiense* 441 pl. xxx f. 3-8; *nanumforme* 443 pl. xxxix f. 10-11; *foordi* 443 pl. xxv f. 8-9; *crickii* 444 pl. xxiii f. 7, xxv f. 7; *woodwardsi* 445 pl. xxi f. 5 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

†*Orthoceras dominans* sp. n. Permian Sicily, GREGORIO Ann. Geol. Paleont. Palermo 52 1930 p. 15 pl. ii f. 17.—*O. de-filippii* p. 70 pl. xvi f. 1, *O. (Protocycloceras) reedi* p. 71 pl. xvi f. 2 spp. n. Permian Caracorum, GORGANI & MERLA Sped. Ital. Filip. nell Himalaia Bologna 5 1934.—*O. seikekiense* p. 405 pl. xvi f. 7-9, pl. xvii f. 1-5; *reticulatum* p. 406 pl. xvi f. 3-5; *yüi* p. 404 pl. xxix f. 8-9 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.—*O. (Spyroceras)* cf. *nuntium* Hall figs., BERGER 90.

†*Oxytropidoceras parinense* sp. n. Cretaceous Peru, OLSSON Bull. Amer. Paleont. Ithaca 20 69 1934 p. 75 pl. ii f. 1, 4.

†*Pachydiscus boulei* sp. n. Cretaceous Madagascar, COLLIGNON Ann. Géol. Serv. Mines Madagascar 1 1931 p. 53 pl. vii f. 6-6b.

†*Paracrochordiceras* subgen. n. *Acrochordiceras* type *A. anodosum* Welter 1915, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 400.

†*Parahedenstroemia* gen. nov. (Hedenstroemiidae) type *Hedenstroemia acuta* Krafft, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 221.

†*Parametacoceras* p. 232, type *bellatulum* p. 233 gen. et sp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. 16 3 1934 pl. xv f. 1-5.

†*Paranannitinae* subfam. n. (Ammonoidea), SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 190.

†*Paranorites hydaspis* p. 145 pl. ix f. 3a, b; *praestans* p. 147 pl. vii f. 4a, b; *aequalis* p. 148 pl. x f. 3a, b; *inflatus* p. 149 pl. iv f. 1; (Koken MSS.) spp. n. Trias Salt Range, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Parasagoceras gracile* sp. n. Trias Nitoeokoko, SPATH Cat. Foss. Cephalopoda Brit. Mus. 4 1934 p. 64 f. 9 d, e.

†*Parascoceras* gen. n. type *P. " [Ascoceras] " fistula* (Lindström), MILLER Univ. Iowa Stud. Nat. Hist. 14 4 1932 p. 34 pl. vii f. 3-12.

†*Paraspidites* gen. n. (Paranoritidae) type *Aspidites superbus praecursor* Frech, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 161 pl. iii f. 2.

†*Paravaginoceras parvodepressum* gen. et sp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 389 pl. xii f. 3-5.

†*Parowenites* gen. n. (Proptychitidae) type *Owenites simplex* Welter, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 187 f. 58.

†*Parussuria* gen. n. (Ussuriidae) type *Ussuria compressa* Hyatt & Smith, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 213.

†*Perisphinctes panderi*, STRACHOV 913.

†*Peroniceras* (Schloenbachia) *subtricarinatum* fig., JAROS 454.

†*Phlyseogrammoceras dispansiforme moulainei* var. n. p. 424 pl. xxiii f. 1, 2; *nicovi* sp. n. p. 425 pl. xxii f. 1, 2; Jurassic France, GÉRARD & BICHE-LONNE Bull. Soc. géol. Fr. (5) 3 5-6 1933.

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- †*Placites applanatus* sp. n. Trias Europe, KUTASSY Mat. Term. Ért. Budapest 49 1933 p. 226 pl. ii f. 34, 35.
- †*Planetoceras bellilineatum* p. 139 pl. iii f. 9-13, *P. tiltoni* p. 143 pl. viii f. 1, pl. ix f. 1 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDR A Nebraska Geol. Surv. Bull. 9 (2) 1933.
- †*Platyclymenia* (*Pleuroclymenia*) *americana*, *polypleura* figs., SCHINDEWOLF 841.
- †*Pleuronautilus* (*Trachynautilus*) *laevis* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 61 pl. ii f. 8.
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- †*Praedaraelites* gen. n. p. 179 type *P. culmiensis* (Kob.) = *Daraelites culmiensis* Kobold; *P. sp. n.* suture line fig. 4 p. 180, SCHINDEWOLF Abh. Ges. Wiss. Göttingen (3) 10 1934.
- †*Prionolobus orbis* (Koken MS.) sp. n. Trias Salt Range, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 97 pl. ii f. 4.
- †*Proarcestes pinzganensis* sp. n. Trias Germany, SCHNETZER Palaeontographica Stuttgart 81 1-3 1934 p. 124 pl. vi f. 4-6.
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- †*Protokionoceras isotelorum* sp. n. Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934 p. 23 pl. iii f. 15.
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†*Pulchellia rhombocostata* p. 276 pl. xii f. 3; *P. ? africana* p. 277 pl. xii f. 5 spp. n. Cretaceous Maio Cape Verde Islands, STAHLCKER N. Jahrb. Geol. Paläont. Stuttgart 73 2 1934.

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†*Phacophyllites telegdi-rothi* sp. n. Middle Lias, Bakony and Hungary, KOVÁCS Mag. K. földt. Int. Evk. Pest. 64 7-9 1934 p. 245 pl. xvi f. 1-2a.

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†*Ringoceras praecurvum* gen. et sp. n. (Kionoceratidae) Ordovician Oslo, STRAND Norsk Geol. Tids. Oslo 14 1-2 1934 p. 24 pl. viii f. 3a, b, 4a, b.

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septum p. 411 pl. xvi f. 6, xviii f. 1-3, xx f. 9; *endoi* p. 412 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934.

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†*Sirenites collignoni* sp. n. Cretaceous Launsdorf, GUGENBERGER SitzBer. Akad. Wiss. Wien (I) 143 1-2 1933 p. 49.

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†*Sonninia sowerbyi* Miller in the Bajocien of Morre, DREYFUSS 238.

†*Sphaerulites depressus* sp. n. Cretaceous Syria, BLANKENHORN Palaeontographica Stuttgart 81A 4-6 1934 p. 229 pl. xii f. 104-106.

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†*Stacheoceras bransonorum* pp. 292, 293 pl. xxxix f. 23-24; *S. sexlobatum* pp. 292, 294 pl. xxxix f. 19-21, spp. n. Permian U.S.A., MILLER & CLINE J. Paleont. Sharon Mass. 3 3 1934.

†*Stenogomphoceras* (?) *ignotum* sp. n. Silurian Ohio, FOERSTE J. Sci. Labs. Denison Univ. 29 1934 p. 189 pl. xxxv f. 3a, b.

†*Stepheoceras banksi naltshikensis* var. n. Jurassic Caucasus, CHIKHACHEV Trans. Geol. Presp. Serv. U.S.S.R. 104 1933 p. 21 pl. ii f. 1a, b.—*S. humphriesianum* figs., FAHIAN & RUIZ 257; fig., MAILLEUX 596.

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†*Stereoplasmodoceras tofangioides* 433 pl. xxiv f. 1; *yabei* 484 pl. xx f. 1-2, pl. xxiv f. 2-3 spp. n. Middle Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 1934.

†*Stereoplasmodoceratidae* fam. n., KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 432.

†*Strebloceras cornuoides* fig., WRIGLEY 1055.

†*Strigogoniatites* gen. n. type *Glyphioceras angulatum* Haniel Lower Permian, SPATH Catal. foss. Ceph. Brit. Mus. 1934 p. 15.

†*Sturia japonica* sp. n. Trias Japan DIENER Denkschr. Akad. Wiss. Wien 92 1916 p. 18 pl. vi f. 1, 2.

†*Subflemingites* gen. n. (Flemingitidae) type *involutus* "sp. n." = "*Aspidites*" *meridianus involutus* Welter Trias, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 118 f. 32.

†*Submeekoceras* gen. n. (Meekoceratidae) type *Meekoceras mushbachanum* White, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 255 f. 87.

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Tainoceras monilifer p. 148 pl. x f. 1-5 text-fig. 23; *T. nebrascense* p. 151 pl. xi f. 1-6; *T. rotundatum* p. 154 pl. xii f. 2, 3 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDR A Nebraska Geol. Surv. Bull. 9 (2) 1933.—*T. fugax* fig., SIMIE 875.

†*Temnocheilus subrectangularis* p. 160 pl. xiii f. 1-3; *T. johnsoni* p. 163 pl. xiii f. 4; pl. xiv f. 3, 4, spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDR A Nebraska Geol. Surv. Bull. 9 (2) 1933.—*T. harneri* sp. n. Carboniferous Missouri, MILLER & OWEN Stud. Nat. Hist. Iowa Univ. 16 3 1934 p. 223 pl. xiii f. 1, pl. xiv f. 1.

†*Tirolitoides* nom. nov. = *Paraceratites* Kittl 1903 non Hyatt 1900; (*Tirolitidae*) type *Ceratites* (*Paraceratites*) *prior* Kittl 1903; SPATH Catal. Foss. Cephalopoda Brit. Mus. 1934 p. 378.

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†*Titanoceras sanadreassense* p. 204 pl. xiii f. 7, pl. xvii f. 1, 2; *T. rectilaterale* p. 206 pl. xviii f. 1, pl. xix f. 1; *T. ingens* p. 208 pl. xx f. 1 text-fig. 32 spp. n. Carboniferous U.S.A., MILLER, DUNBAR & CONDR A Nebraska Geol. Surv. Bull. 9 (2) 1933.

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†*Tornoceras* (*Tornoceras*) *crebriseptum* fig., SCHINDEWOLF 841.

†*Toxoceras filicostatum* sp. n. Cretaceous Maio, Cape Verde Islands, STAHLCKER N. Jahrb. Geol. Paläont. Stuttgart 73 2 1934 p. 286 pl. xiv f. 16.

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†*Trocholites ammonioides* sp. n. Middle Ordovician, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. etc. 3 8 1934 p. 428 pl. xxvi f. 1-3.

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†*Uptonia jamesoni* figs., ROSENKRANTZ 808.

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†*Xenoceltites spitsbergensis* sp. n. p. 128 pl. ix f. 1, 2, pl. xi f. 5, 7, 8; *gregoryi* sp. n. p. 129 pl. v f. 3, pl. vi f. 4, 5, f. xi f. 3, 4, 6, Trias Spitzbergen, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934.

†*Xenodiscoides hollandi* sp. n. Trias Salt Range, SPATH Catal. Foss. Cephalopoda Brit. Mus. 4 1934 p. 122 pl. iii f. 3a, b.

IX. CRUSTACEA

ARRANGED BY

W. L. SCLATER, M.A.

CONTENTS

| | PAGE |
|------------------------------|------|
| I. TITLES | 1 |
| II. SUBJECT INDEX | 23 |
| Distribution | 26 |
| III. SYSTEMATIC INDEX | 28 |

I.—TITLES.

1.—Alexander, C. I. Sexual dimorphism in fossil Ostracoda. Amer. Midl. Nat. Notre Dame 13 1932 pp. 302-310 1 pl.

2.—Alexander, C. I. Ostracoda of the genera *Monoceratina* and *Ortho-notacythere* from the Cretaceous of Texas. J. Paleont. Sharon Mass. 8 1934 pp. 57-67 1 pl.

3.—Alexander, C. I. Ostracoda of the Midway (Eocene) of Texas. J. Paleont. Sharon Mass. 8 1934 pp. 206-236 4 pls.

4.—Alexander, C. I. and Alexander, C. W. Reversal of valve size and hinge structure in a species of the genus *Cytheridea*. Amer. Midl. Nat. Notre Dame 14 1933 pp. 280-283 4 figs.

5.—Alexandrowicz, J. S. The innervation of the heart of Crustacea. II.—Stomatopoda. Quart. J. Micr. Sci. London 76 1934 pp. 511-548 1 pl. 13 text-figs.

6.—D'Ancona, U. *Niphargus anticolanus* n. sp., Gammaride cieco delle acque di Fiuggi. Arch. zool. Torino 20 1934 pp. 93-116 5 figs.

7.—Ander, K. Ny fyndort för *Tanymastix* [= *Branchipus stagnatilis*. Fauna och Flora Uppsala 1934 pp. 80-82.

8.—André, M. Une Écrevisse américaine acclimatée dans le Marne aux portes de Paris. Bull. Soc. acclim. Fr. 81 1934 pp. 441-448.

9.—André, M. Sur une Écrevisse américaine pullulante aux portes de Paris. C.R. Acad. Sci. Paris 199 1934 pp. 538-539.

André, M. *vide* Lamy.

10.—Anon. Nervous system and sense organs. Crustacea, Branchiopoda pp. 35-45 5 figs., Ostracoda etc. pp. 58-69 7 figs. J. Ent. Zool. Claremont Cal. 26 1934.

11.—Anon. The Crustacea of Suffolk. Part i. Trans. Suffolk Nats'. Soc. 2 1934 pp. 265-271.

12.—Antonescu, C. S. Über Mysiden aus dem Süß- u. Brackwasser Rumäniens. Notat. biol. Bucureşti 2 1934 pp. 32-36.

13.—Arcangeli, A. Isopodi terrestri raccolti nel Caracoram dalla spedizione di S.A.R. il Duca di Spoleto. Ann. R. Ist. Agrario Milano 1 1934 pp. 1-23 3 pls.

- 14.—Arcangeli, A. Porcellionidi nuovi o poco noti d'Italia. Correzioni ed aggiunte (Isopodi terrestri). Boll. Lab. Zool. Agr. Milano 4 1932 pp. 1-24 [sep. pag. ?] 3 pls. 2 text-figs.
- 15.—Arcangeli, A. Isopodi terrestri delle isole Samoa e considerazioni sopra la distribuzione geographica del genera *Armadillo* Latr. emend. Verh. Boll. Mus. Zool. Anat. comp. Torino 43 1933 pp. 25-33 4 pls.
- 16.—Arcangeli, A. Per una migliore conoscenza di alcune specie di Isopodi terrestri in rapporto alla loro distribuzione geographica. Boll. Mus. Zool. Anat. comp. Torino 43 1933 pp. 47-62.
- 17.—Arcangeli, A. Isopodi terrestri di Somalia. Boll. Mus. Zool. Anat. comp. Torino 43 1933 pp. 63-69 6 pls.
- 18.—Arcangeli, A. Trois *Porcellio* (Crust. Isopodes) de la Grande Salvage et des Canaries. Bull. Mus. Hist. nat. Paris (2) 6 1934 pp. 250-251.
- 19.—Atkins, D. Two parasites of the Common Cockle, *Cardium edule*; a Rhabdocoele *Paravortex cardii* Hallez and a Copepod *Paranthessius rostratus* (Canu). J. Mar. Biol. Ass. Plymouth 19 1934 pp. 669-676.
- 20.—Auger, D. et Fessard, A. Sur le potentiel d'action des fibres nerveuses les plus rapides chez quelques Crustacés marins. C.R. Soc. Biol. Paris 116 1934 pp. 98-100.
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II.—SUBJECT INDEX.

GENERAL.

Methods.—Quantitative investigations in plankton, HENTSCHEL, 209; Preparation of smaller Crustacea for exhibition, ECKERT, 139; Measuring Cladocera, ISCHREY, 226; Culture media for Cladocera, CHIPMAN, 91; BOND, 51.

Taxonomy and Classification.—Terrestrial Isopods, MACCAGNO, 399; Cirripeds, LAMY & ANDRÉ, 285.

Economics.—*Eriocheir*, PETERS, 365; Lobster fishery in St. Lawrence, Canada, TEMPLEMAN, 456.

Naturalization.—*Cambarus* in the Seine and Marne, ANDRÉ, 8, 9; In Germany, BOETTGER, 47; *Eriocheir* in Germany, PETERS & PANNING, 366.

Biography.—C. Artom, BARIGOZZI, 30.

STRUCTURE.

General.—*Penaeida*, BURKENROAD, 71; *Eriocheir*, PETERS & PANNING, 366; *Pleoticus*, FESQUET, 149; *Bacallaurus*, PYEFINCH, 373; *Apus*, GAUTHIER, 170; *Scapholeberis*, OCIOZYNSKA-BANKIEROWA, 343; *Chirocephalus*, HSÜ, 218.

External Anatomy.—Orientation of fossil Ostracodes, KUMMEROW, 283; WARTHIN, 482; The hinge of the Ostracode shell, ALEXANDER & ALEXANDER, 4; Mouth parts of *Diastylis*, DENNELL, 124; Of the Branchiopoda, ERIKSSON, 141; Luminous organs, Amphipods, FAGE, 145; "Nackenschild" of Cladocera, FRANKE, 161; Elastic tissue of peduncle in *Pollicipes*, GARBAULT, 169.

Nervous System and Sense Organs.—General, HANSTRÖM, 199, 202; In Entomostraca, ANON, 10; Brain and eyes, *Haploops*, SVENSSON, 450; Brain, *Athanas*, BORANG, 54; Endocrine organ in Crustacean brain, HANSTRÖM, 201; Eye, *Gammarus*, WOLSKY & HUXLEY, 498; Nerve cells, *Potamobius*, DORNESCO, 132; Chordotonal organ, Decapods, BARTH, 34; In *Caprella*, WETZEL, 486; Innervation of heart, *Squilla*, ALEXANDROWICZ, 5; In *Ligia*, SUZUKI, 449.

Skeleton and Muscles.—Skeleton and gills, *Hyas*, JUNGE, 237; Claw muscles, *Potamobius*, MAZOUÉ, 315; Abdominal muscles, *Penaeida*, DANIEL, 117.

Respiratory and Circulatory Organs.—Air breathing organs of Crabs, v. RABEN, 374; Of *Argulus*, JIROVEC & WENIG, 234; Sternal artery, *Potamobius*, DEFRETIN, 122; Blood-gland and blood supply, Decapods, SÖGREN, 430.

Alimentary Canal.—Hepatopancreas, *Porcellio*, PATANIÈ, 359, 360.

Gonads.—Genital organs, *Pandalus*, LEOPOLDSIEDER, 290; Cytology, sperm of *Potamobius*, REINHARD, 383; Statocysts, *Macrura*, SHEN, 426.

Miscellaneous.—Calcareous bodies, *Hyloniscus*, DUDICH, 137; Zenker organ, Isopods, MÖDLINGER, 324.

Cytology.—Chromatophores, *Palaeomon*, BEAUVALLET & VEIL, 35; Mitosis, *Artemia*, GROSS, 190; Chromosomes, *Cambaroides*, NÜYAMA, 342; In *Daphnia*, REY, 386.

PHYSIOLOGY.

Nervous System and Sense Organs.—In *Lepeophtheirus*, STEKHOFEN, 438; Colour vision, SCHLEGTENDAL, 416; Eye stalk hormone, KLEINHOLZ, 260; NAVEZ & KROPP, 335; Regenerated antennule and eyestalk, WOLSKY & LISSMANN, 499; Nerve endings, LULLIES, 297; Nerve response, AUGER & FESSARD, 20; Neuro-muscular action, BARNES, 32; PANTIN, 356; CHAUCHARD, 87; WIERSMA & HARREVELD, 488; Chordotonal organ, BARTH, 34.

Chromatophores and their Control.—KROPP & CROZIER, 280; STEPHENSON, 443.

Movement and Muscle.—JASPER & PEZARD, 231; VEIL, 474.

Nutrition.—Feeding mechanism, *Diastylis*, DENNELL, 124; In Branchiopods, ERIKSSON, 141; Hepatopancreas, *Porcellio*, PATANIÈ, 359; Digestion, *Calanus*, BOND, 50.

Respiration and Circulation.—Respiration, FOX & JOHNSON, 157; SEGAAK, 419; RAFFY, 375, 376, 377; WOLSKY & HOLMES, 497; JIROVEC & WENIG, 234; Chemoreception in gills, TONNER, 461; Superficial tension of the blood, ZUNZ, 507; Osmotic pressure of haemolymph, BOGUCKI, 49; Effect of drugs on heart, MACLEAN & BEZNÁK, 303.

Excretion.—NAGEL, 334.

Reproduction.—Developing egg in *Branchipus*, MATHIAS & BOUAT, 314.

Miscellaneous.—"Nackenschild," FRANKE, 161.

Biochemistry.—Astacine, KARRER & LOEWE, 244; Of *Euchaeta*, ORR, 349; Blood salts, *Potamobius*, HUF, 221; Mineral elements and salinity, *Telphusa*,

DRILHON-COURTOIS, 134, 135; Pigments, *Palaemonetes*, BROWN, 67; Serum of *Eupagurus* and effect on *Adamsia*, CANTACUZÈNE & DAMBOVICIANU, 79; Salt requirements of *Ligia*, BARNES, 33.

Experimental Physiology.—Effects of drugs, etc., BENAZZI, 36; COWAN, 109; GRÉGOIRE & LISON, 186; Temperature effects, COKER, 99, 100; Phototaxis, SEIFERT, 420; Reaction to irritation and other environmental experiments, CATE-KAZEJEWA, 82; KUNKEL, 284; Absorption experiments, KOCH, 269; McDOUGALL & VERZAR, 301; Regeneration experiments, DARBY, 118; Osmosis, OTTO, 352.

Age and Growth Experiments.—CREASER, 114; DAWES, 119; DAWES & HUXLEY, 120; MOORE, 331, 332; NOUVEL, 340; TEISSIER, 454; WEYMOUTH & MACKAY, 487.

DEVELOPMENT.

Early Stages.—*Eupagurus*, KRAJČISKA, 279; *Tisbe*, WITSCHL, 492.

Larval Stages: General.—E. Indian Decapods, LÉBOUR, 286; Stomatopoda, FOXON, 158; Freshwater Copepods, EWERS, 142; Parasitic Copepods, GURNEY, 196; Marine Ostracods, FAGE, 143.

Larval Stages of Special Forms.—*Eriocheir*, PETERS & PANNING, 366; *Dromia*, LÉBOUR, 287; *Epilabidocera*, M. W. JOHNSON, 236; *Panurilus*, KINOSHITA, 257; *Homarus*, DEWBERRY, 126; *Calocaris*, BULL, 70; *Spirontocaris* and *Hippolyte*, NEEDLER, 336; *Euphausia*, FROST, 163; *Nebalia*, MANTON, 305; *Cyclops*, PINE, 368; *Calanus*, SØMME, 433; *Rhinocalanus*, GURNEY, 194; *Euchaeta*, NICHOLLS, 338; *Tortanus*, JOHNSON, 235; *Chirocephalus*, HSÜ, 218; *Alcippe*, KÜHNERT, 281; *Baccalaureus*, PYEFINCH, 373.

Organogeny.—Gill-gland, *Astacus*, FULIŃSKI, 164; Eye, *Gammarus*, WOLSKY & HUXLEY, 498.

Spermatogenesis.—*Telphusa*, DELPHINO, 123; Cirripeds, SÂHLEANU, 399.

ETHOLOGY.

General Habits.—*Eriocheir*, PETERS & PANNING, 366; *Uca*, HEDIGER, 207; *Callinassa*, MACGINITIE, 302; Indian Entomostraca, SEWELL, 422.

Special Habits.—Feeding, CANNON, 78; DENNELL, 124; Swimming, FOXON, 159; WERTHEIM, 485; Sleeping, PIÉRON, 367; Mating and breeding, TEMPLEMAN, 457; MEYER, 320; MATHAIS & BOUAT, 313; V. BREEMEN, 62.

Psychology.—Effect on variation, V. KOLOSVÁRY, 271.

Phototropism.—FOXON, 160; VIAUD, 477, 478; WOJTUSIAK, 493.

Moult.—DRACH, 133.

Effects of External Conditions.—General, KUNKEL, 284; Light, BLUM, 45; CÄRÄUS, 80; STÅLBERG, 435; Temperature, COKER, 96; PACAUD, 354; Seasons on *Calanus*, BOGOROW, 48; ORR, 348; MARSHALL and others, 311; Change of habit on air breathing Crabs, V. RABEN, 374; "Heavy" water on population growth, TERAQ & INOUE, 458; Effects of chlorinated water, TAUSON, 452.

Ecological Studies.—Caves in Lanzarote, Canary Is., FAGE & MONOD, 146; Mangrove swamps, HARMS, 203; Distribution of *Moina*, PACAUD, 355.

Migration.—Diurnal movements, CLARKE, 94, 95; OYE & LUYTEN, 353; Vertical migrations, SEBESTYÉN, 418; RUSSELL, 394.

Marine Plankton Studies.—North Sea, SØMME, 433; French coasts, FAGE, 144; Kara Sea, BERNSTEIN, 41; Coast of Vancouver I., WAILLES, 480.

Limnology.—Germany, METZNER, 319; Glanseksee, W. Prussia, LUCKS, 296; Bremerhaven harbour, KLIE, 265; Poland, BOWKIEWICZ, 61; Salt Lakes nr. Perm, ZINOVYEV, 506; Italian Alpine Lakes, BALDI, 24; EMILIA, 140; PARAZAN, 357; Italy, MONTI & STELLE, 330; Albania, MONTI, 329; Lake Baikal, BUROW & KOSHOW, 73; Michigan, DOLLEY, 129.

Other Habitats.—Caverns, BRIAN, 66; CHAPPUIS, 84, 86; GEBHARDT, 174; GIOVANNOLI, 180; KIEFER, 250; LERUTH, 293; RAMMNER, 379; SCHELLENBERG, 410-414; STAMMER, 437; WOLF, 494; Subterranean waters, HUBAULT, 220; KARAMAN, 243; KIEFER, 248; KLE, 266; SCHELLENBERG, 410, 411, 413; UENO, 466.

Autotomy and Regeneration.—HOADLEY, 212; NOUVEL, 341.

Degeneration.—Gammarid eye, WOLSKY, 496.

Parasitism.—*Athelges* and *Peltogaster* in *Eupagurus*, PÉREZ, 362; *Gammarus* as an intermediate host, SCHEER, 409; Whale-Lice, IWASA, 228.

Commensalism.—*Balanus* and *Dendroaster*, GILTAY, 178; Copepods and Echinoderms, STEPHENSEN, 442; *Caphyra* and *Alyonaria*, MONOD, 325.

ÆTIOLOGY.

Variation.—Species formation in Cladocera, WOLTERECK, 500; Variation in *Eucyclops*, ŠRÁMEK-HUŠEK, 434; In *Daphnia*, BERGER, 40.

Sex Problems.—Sexual dimorphism in fossil Ostracods, ALEXANDER, 1; Sex determination, BERG, 37; Sex-ratios, Isopods, GEISER, 176; Secondary sex characters, Brachyura, MIYASHITA, 323; TEISSIER, 455.

Parthenogenesis.—In relation to genetics, LOWNDES & MACBRIDE, 295; In *Trichoniscus*, VANDEL, 470; Cladocera, BERG, 37.

Hermaphroditism.—In *Pandalus*, LEOPOLDSIEDER, 290.

Genetics.—BARIGOZZI, 29; ROY, 393; SEXTON & CLARK, 424.

Poecilogony.—LEROY, 292.

Teratology.—DEFRETIN, 122; KOWALSKI, 275; PIRLOT, 370.

DISTRIBUTION AND FAUNAS.

General Problems.—Zoogeography of Land Isopods, ARCANGELI, 16; Faunal relations and origins of Kara Sea, GURJANOVA, 192.

Land and Freshwater (including Salt Lakes).

Palaeartic Region.

British Islands.—ANON, 11; TATTERSALL & BRITTEN, 451.

France.—HUBAULT, 220; ROY, 391, 392.

Belgium.—LERUTH, 293; SCHELLENBERG, 410, 414.

Holland.—REDEKE, 382.

Denmark.—BERG, 39; MEINERTZ, 316; OTTERSTRØM, 351.

Sweden.—ANDER, 7.

Germany.—KEIL, 246; KIEFER, 248, 249; KLE, 263, 264, 265; LUCKS, 396; PESTA, 363; RAMMNER, 378; SCHÄFER, 404, 405; SCHELLENBERG, 413, 415; STAMMER, 436; VERHOEFF, 475.

Austria.—BREHM, 63; CHAPPUIS, 86; KLE, 266; PESTA, 364; SCHELLENBERG, 413; WERNER, 484.

Hungary.—GEBHARDT, 174.

Czecho-Slovakia.—HRABĚ, 217; JAPP, 230; SCHÄFERNA, 407.

Estonia.—LEPIKSAAR, 291; VINKEL, 479.

Poland.—BOWKIEWICZ, 61; GAJL, 166; GROCMALICKI, 188; KOZMIŃSKI, 278; RZÓSKA, 397, 398.

Russia.—BIRSTEIN & WINOGRADOW, 44; BORUTZKY, 55; BULDOVSKY, 69; DOGIEL & PETRUSCHEWSKY, 128; MARKEWITSCH, 306, 308, 310; ZINOVYEV, 506.

Italy.—D'ANCONA, 6; ARCANGELI, 14; BALDI, 24; GALICO, 167; KIEFER, 250; MONTI & STELLA, 330; PARAZAN, 357; RAMNER, 379; SCHELLENBERG, 411; STELLA, 439; TEDESCHI, 453; VERHOEFF, 476.

Balkan Peninsula.—Yugo-Slavia, KARAMAN, 238, 239, 242, 243; KLE, 261; REMY, 384; STAMMER, 437; STROUHAL, 447; Bulgaria, CHICHLOV, 89; Roumania, ANTONESCU, 12; DOBREANU & MANOLACHE, 127.

Mediterranean Islands.—Sardinia, BRIAN, 66; Ægean Is., GIARINI, 177; Samothrace I., KARAMAN, 240.

North Africa.—GAUTHIER, 171.

Canary Is.—ARCANGELI, 18; FAGE & MONOD, 146.

Western Asia.—Asia Minor and Persia, KARAMAN, 241; Georgia, CHIKLÉEF, 90; Armenia, BIRSTEIN, 43.

Central Asia.—Ladak, KARAMAN, 241; Karakorum, ARCANGELI, 13.

Russian Asia.—Siberia, BIRSTEIN & WINOGRADOW, 44; BUROW & KOSHOW, 73; Maritime Prov., BULDOVSKY, 68; MARKEWITSCH, 307; RYLOV, 396; SMIRNOV, 431.

Eastern Asia.—Manchuria, UÉNO, 464; Japan, HORASAWA, 214; KLIE, 266; SAKAI, 400; UÉNO, 465, 466; Kurile Is., KIKUCHI, 256.

Ethiopian Region.

South Africa.—KIEFER, 255; KLIE, 261; ROUX, 390.

Central and East Africa.—Tanganyika, GROCHMALICKI, 189; Kenya, JENKIN, 232.

North-Eastern Africa.—Somaliland, ARCANGELI, 17.

Madagascar.—BALSS, 25; GAUTHIER, 172, 173; ROUX, 388.

Indian Region.

India.—SEWELL, 422, 423; Kashmir, ARCANGELI, 13; Ceylon, BURT, 74; Burma, STEUER, 444.

South China.—Hsü, 219; WU, 502.

Malaya.—Sumatra, BALSS, 28; Java, MENZEL, 318; Bali, BREHM, 64; Celebes and Philippines, BALSS, 27.

Australian Region.

Australia.—SCHELLENBERG, 412.

Pacific Islands.—Solomon Is., ROUX, 389; Samoa, ARCANGELI, 15; Hawaiian Is., CHAPPUIS, 85.

Neotropical Region.

South America.—Argentina, KLIE, 261; Brazil, OLIVEIRA, 345; Dutch Guiana and Chile, BREHM, 65.

Central America.—Guatemala, KIEFER, 251.

West Indies.—Hispaniola, KIEFER, 254; Cuba and Haiti, BOONE, 52.

Nearctic Region.

United States.—COKER, 98; CREASER, 110, 111; KIEFER, 252, 253; Texas, GEISER, 175; Louisiana, BURKENROAD, 71; Oklahoma, CREASER & ORTENBURGER, 116; CREASER, 112; Michigan, DOLLEY, 129; Ohio, FURTOS, 165; North Carolina, COKER, 97; CREASER, 113; Kentucky, GIOVANNOLI, 180; Tennessee, GREEN, 185.

Canada.—Quebec Prov., WILLEY, 489; Manitoba, BAJKOV, 23; Vancouver I., SAUNDERS, 403.

Marine.

North Atlantic.—FISSET, 156; LUNZ, 398; PRÉFONTAINE, 372; SHOEMAKER, 428; Bay of Biscay, FAGE, 144; HATTON, 205; MIRANDA Y R., 321.

North Sea, Baltic and British Coasts.—BOWKIEWICZ, 60; DONS, 130, 131; FAUVEL, 147; FISCHER, 150, 151; HANSTRÖM, 200; KLIE, 267; LEIGH-SHARPE, 289; MARKEWITSCH, 309; OLDEVIK, 344; OMER-COOPER & RAWSON, 346; ORTON & RAWLINSON, 350; PESTA, 363; SÖMME, 433; VÄLIKANGAS, 469.

Mediterranean.—FAGE, 144; LOMBARDO, 294.

Black Sea.—BĂCESCO, 22; KONSULOV, 273; PASPALEFF, 358.

Tropical Atlantic.—Moroccan coast, FAGE, 145; MIRANDA Y RIVERA, 321, 322; Gulf of Mexico, Caribbean, BURKENROAD, 71, 72; RATHBUN, 381; SHOEMAKER, 429.

Indo-Pacific.—BOONE, 53; BOSCHMA, 57; Chinese and Indo-china seas, MONOD, 325, 326; WU, 503; YU, 504; Gt. Barrier Reef, FOXON, 158; Malayan and East Indian Seas, BALSS, 26, 28; BOSCHMA, 56; GORDON, 184;

LEBOUR, 286; LEIGH-SHARPE, 288; NILSSON-CANTELL, 339; PIRLOT, 369; ROUX, 389; SEWELL, 421; TWEEDIE, 463; Bay of Bengal and British India Seas, CHOPRA, 93; KIRTISINGHE, 259; PYEFINCH, 373; East Africa and Madagascar Seas, BARNARD, 31; BALSS, 25.

Red Sea.—COLOSI, 101; TORELLI, 462.

North Pacific.—Bt. Columbian waters, NEEDLER, 336; WAILES, 480; Japanese seas, BOSCHMA, 59; HIRO, 210, 211; IWASA, 227, 229; MAKAROV, 304; URITA, 467, 468.

Eastern Pacific.—BURKENROAD, 72; GLASSELL, 181; SHOEMAKER, 427.

Arctic Seas.—BERNSTEIN, 41; GORBUNOV, 183; GURJANOVA, 192, 193; JESPERSEN, 233; ZIMMER, 505.

Antarctic Seas.—RUSTAD, 395.

Geological.

Ordovician.—Corea, KOBAYASHI, 268; New Zealand, CHAPMAN, 83; Iowa and Ontario, KAY, 245.

Silurian.—Greenland, POULSEN, 371.

Devonian.—Ural, CHERNYSHEW, 88; Cape Prov., RENNIE, 385; Oklahoma, CORYELL & CUSKLEY, 104; Ohio, STEWART, 445; Michigan, WARTHIN, 481.

Carboniferous.—Brazil, BEURLIN, 42; Texas, CORYELL & BILLINGS, 102; CORYELL & BOOTH, 103; CORYELL & SAMPLE, 107; Oklahoma, CORYELL & OSORIO, 105; WILSON, 490; Kansas, HARRIS & LABLICKE, 204; KELLETT, 247.

Permian.—Sicily, GREGORIO, 187; Germany, CALMAN, 76; Texas, CORYELL & ROGATZ, 106; Kansas, KELLETT, 247; Pennsylvania and W. Virginia, HOLLAND, 213.

Lias.—France, THÉOBALD, 459.

Cretaceous.—Holland, v. VEEN, 473; Czecho-Slovakia, ŠULC, 448; Texas, ALEXANDER, 1, 2; ALEXANDER & ALEXANDER, 4; Oklahoma, VANDERPOOL, 471; Kansas, MORROW, 333; S. Dakota, ROTH, 387.

Tertiary, General and Undefined.—Formosa, HAYASAKA, 206; Fiji, RATHBUN, 380; WITHERS, 491; U.S.A., HOWE, 215.

Eocene.—Sicily, SALVO, 402; Tripoli, NEGRI, 337; Texas, ALEXANDER, 3; Texas, STENZEL, 440.

Oligocene.—Alabama, HOWE, 216.

Miocene.—Czechoslovakia, OPPL, 347; Colombia, TOLMACHOFF, 460.

Pleistocene.—Japan, SAKAKURA, 401.

Other Palaeontological Papers.—Fossil Ostracods and stratigraphy, WEBER, 483.

III.—SYSTEMATIC INDEX.

INCERTAE SEDIS.

†*Pygaspis brasiliensis* gen. et sp. n. also *P. quadrata* sp. n. [from Carboniferous of Brazil of uncertain systematic status for which Pygaspidae fam. n. and Pygaspida subord. n. are proposed, BEURLIN Palaeont. Z. 16 p. 122 figs.]

DECAPODA.

Sense organs of some Decapods, HANSTRÖM 202.

Anatomy and physiology of a newly discovered sense organ "Myochordotonal organ" in the appendages of some Decapods, BARTH 34.

The blood gland and the blood supply of the eye in the Decapods, SJÖGREN 430.

The structure of the statocysts in the Malacostraca, SHEN 426.

Larval forms (Pagurids, Portunids, Zanthids etc.) collected in East Indian Seas by Prince Leopold descr. figs., LEBOUR 286.

Swimming methods of Decapod larvae, FOXON 159.

Fossil Decapods of Fiji, RATHBUN 380.

Corrections to wrong identifications by Lee Boone in recent papers on Malacostraca, GLASSELL 182.

Faunal Papers: Marine.—Coast of Spain and Morocco, MIRANDA Y RIVERA 321, 322; Ionian sea, LOMBARDI 294; Norwegian waters, DONS 130, 131; Kara Sea, Russian Arctic, GORBUNOW 183.

Faunal Papers: Freshwater.—European and Asiatic Russia, BIRSTEIN & WINOGRADOW 44.

Brachyura.

Lymphatic gland of sacculinized Crabs, FISCHER-PIETTE 152.

Changes in the gill and gill covers in certain Crabs due to air-breathing, V. RABEN 374.

Secondary sexual characters in the Brachyura, MIYASHITA 323.

Early moults in Brachyura, DRACH 133.

Freshwater Brachyura from Celebes, Philippines and other eastern Islands, BALSS 27.

Indopacific Brachyura taken by the "Alva" expedition (W. K. Vanderbilt) in 1931 descr., distr. references, plates of all spp. p. 32, BOONE 53.

Faunal lists.—Madagascar, BALSS 25; Christmas I., Sumatra, Flores, etc., BALSS 28; Hong Kong, SHEN 425; Amoy and vicinity, WU 503; Japan, SAKAI 400; Gulf of California, GLASSELL 181.

Fossil faunas.—Eocene Sicily, SALVO 402.

OXYRHYNCHA.

(Fams. Maiidae, Parthenopidae, Hymenosomatidae.)

Review of genera of Eumedoninae (Parthenopidae) p. 62, GORDON 184.

Achaeus japonicus sex differences figs., p. 293, SAKAI 400.

Eumedon *vicinus* note fig. p. 300, SAKAI 400.

Halicarcinus wolterecki sp. n. Mindanao Philippines freshwater, BALSS Zool. Anz. 106 p. 181 figs.

Halimus elongatus note fig. p. 295, SAKAI 400.

Harrovia purpurea sp. n. New Guinea coast, GORDON Crust. Brach. in Resultats sci. Voy. Ind. Orient. 3 fasc. 15 p. 67 figs.—*H. elegans* note fig. p. 300, SAKAI 400.

Hyas araneus skeleton and gill structure, JUNGE 237.

Lambrus melanus note fig. p. 299, SAKAI 400.

Maia squinado sexual difference in growth of limbs, TEISSIER 455; Abnormal appendages, KOWALSKI 275.—*M. nipponensis* nom. n. pro *M. japonica* Yohoya preocc. note figs. p. 297, SAKAI 400.

†*Maja laddi* sp. n. Neogene Fiji, RATHBUN Bull. Bishop. Mus. 119 p. 238 figs.

†*Parthenope* (*Platylambrus*) *fijiensis* sp. n. Neogene Fiji, RATHBUN Bull. Bishop Mus. 119 p. 238 figs.

Rhynchoplax messor and other spp. notes figs. p. 289, SAKAI 400.

Xenocarcinus depressus descr. figs. p. 70, GORDON 184.

CYLOMETOPA.

(Fams. Corystidae, Gatuiniidae, Atelecyclidae, Cancridae, Portunidae, Trichiidae, Xanthidae, Potamonidae.)

Actaea aphrodita sp. n. off Bali, BOONE Bull. Vanderbilt Mar. Mus. 5 p. 126 figs.

Cancer pagurus growth habits economics, DEWBERRY 125.—*C. magister* relative growth problems, WEYMOUTH & MACKAY 487.

Caphyra note on spp. *C. octodentata* in Madagascar commensal of *Pinna* p. 506, BALSS 25.—*C. alcyoniophila* sp. n. commensal *Alcyonium* Indo-china seas, MONOD Note Inst. oceanogr. Indo-chine no. 8 1928 p. 4 figs.

Carcinus moenas neuro-muscular physiology, PANTIN 356; Osmosis regulation and the excretory organs, NAGEL 334.

Charybdis (*Goniohellennus*) *hongkongensis* sp. n. off Hong Kong, SHEN Hong Kong Nat. Suppl. no. 3 p. 46 figs.

Chlorodiella bidentata notes fig. p. 49, GORDON 184.

†*Chlorodiella junghuhnii* in Neogene Fiji figs. p. 239, RATHBUN 380.

Cycloxanthops lineatus recorded for Japan fig. p. 310, SAKAI 400.

Daira affinities of genus p. 50, GORDON 184.

Etisus laevimanus synonymy p. 508, BALSS 25.

Glabropilumnus latimanus sp. n. Banda Neira, East India seas, GORDON Crust. Brach. in Resultat sci. Voy. Ind. Orient. 3 fasc. 15 p. 55 figs.

†*Harpactocarcinus* sp. descr. fig. Eocene Tripoli, NEGRI 337.—*H. americanus* status discussed addt. descr. figs. p. 42, *H. rathbunae* sp. n. Eocene Texas p. 46 figs., STENZEL J. Palaeont. 8.

Heteropanope tridentata osmosis and reaction to change of medium, OTTO 352.—*H. makiana* note fig. p. 307, SAKAI 400.

Hypocolpus diverticulatus nomcl. and synonymy p. 510, *H. abbotti* rediscovered addt. desc. figs. p. 512, BALSS 25.

Krausia integra note fig. p. 204, SAKAI 400.

Lissocarcinus elegans sp. n. Society Is., BOONE Bull. Vanderbilt Mar. Mus. 5 p. 50 figs.

Lybia note on spp. p. 519, BALSS 25.

Medaeus nudipes at Christmas I. descr. fig. p. 226, BALSS 28.

†*Montezumella lamiensis* sp. n. Neogene Fiji, RATHBUN Bull. Bishop Mus. 119 p. 239 figs.

†*Palaeocarpilius anodon* descr. fig. p. 18, SALVO 402.

Parapilumnus leopoldi sp. n. Banda Neira, East India seas, GORDON Crust. Brach. in Resultat sci. Voy. Ind. Orient. 3 fasc. 15 p. 56 figs.

Parathelphusa philippina v. Martens is not a *Potamon* p. 177, BALSS 27.—*P. (Barytelphusa) salomonis* sp. n. Solomon Is., ROUX Rev. Suisse Zool. 41 p. 230 figs.—*P. (Oziothelphusa) pittarellii* remarks fig. p. 520, BALSS 25.—*P. (Globiothelphusa) sumatrense* sp. n. Sumatra, BALSS Zool. Anz. 106 p. 231 figs.—*P. (Nautilothelphusa) zimmeri* in Celebes figs. p. 179, BALSS 27.

†*Phlyctenodes hautkeni* descr. fig. p. 21, SALVO 402.

†*Phymatocarcinus eocenicus sicula* var. n. Eocene Sicily, SALVO Giorn. Sci. nat. econ. Palermo 37 no. 3 p. 23 figs.

Phymodius review of gen. and spp. p. 32, *P. odhneri* sp. n. Macclesfield Bank fig. p. 43, GORDON 184.

Pilodius harmsi sp. n. Christmas I., BALSS Zool. Anz. 106 p. 228 figs.

†*Pilodius mediterraneus* descr. fig. p. 31, SALVO 402.

Pilumnus heterodon sp. n. off Nagasaki, Japan, SAKI Sci. Rep. Tokyo Bunrika Daig. 1B p. 307 figs.

Platypodia maculosa and other spp. note fig. p. 27, GORDON 184.

Polydectus cupulifer systematic status p. 513, BALSS 25.

Portunus growth of cephalothorax, TEISSIER 454.

Potamon sp. poecilogony in a sp. from Kansu, LEROY 292.—*P. edule* a biometrical study of the Aegean races, *P. e. karpachos* Scarpanto I., *P. e. kretaion* Crete subsp. n. p. 88, GIAVARINI Arch. Zool. Torino 20 p. 67.—*P. (Potamiscus) loshingense* p. 339, *P. (Geothelphusa) purpureomannualis* p. 343, *P. (G.) patellifer* p. 347 spp. n. all Kwangsi all figs., WU Sinensia 4.

Telphusa fluviatilis biochemistry and adaptations to variation in salinity, DRILHON-COURTOIS 134, 135; Respiration studies, RAFFY 376; Spermatogenesis, DEPHINO 123.

†*Titanocarcinus kochii* descr. fig. p. 28, SALVO 402.

Xantho exaratus var. note fig. p. 29, GORDON 184.

†*Zanthopsis peytoni* sp. n. p. 49 figs., *Z. p. parva* var. n. p. 51 Eocene Texas, STENZEL J. Paleont. 8.

CATOMETOPA.

(Fams. Gonoplacidae, Pinnotheridae, Cymopoliidae, Retroplumidae, Ocypodidae, Mictyridae, Grapsidae, Gecarcinidae, Hapalocarcinidae.)

Brachynotus gemmellari taxonomy, distr. structure, DUBOSCQ & TUZET 136.

Cardiosoma pagensteckeri note distr. p. 235, BALSS 28.—*C. hirtipes* note fig. p. 5, GORDON 184.

†*Daranyia fabianii* sp. n. Eocene Sicily, SALVO Giorn. Sci. nat. econ. Palermo 37 no. 3 p. 40 figs.

Dotilla fenestrata variations p. 521, BALSS 25.

Eriocheir sinensis general account, structure, habits, wanderings and naturalization in Germany, PETERS & PANNING 366; Burrows and economic status, PETERS 365; Distr. and spread of range in Europe, BOETTGER 46; Range in middle Europe addt. information, KULMATYCKI 282; Spread to Danish waters, OTTERSTRÖM 351; Occurrence in Swedish waters, HANSTRÖM 200; Doubtful occurrence in Black Sea VASILIU, 472; Recent extension of range and habits in China, CALMAN 77; Edibility and economics in China, WOLTERSTORFF 501.

†*Galenopsis quadrilobata* descr. figs. p. 35, SALVO 402.

Gelasimus coarctatus and allied spp. characters figs. p. 11, GORDON 184.

Heteroplax nagasakiensis sp. n. off Nagasaki, SAKAI Sci. Rep. Tokyo Bunrika Daig 1B p. 312 figs.

Macrophthalmus parvimanus remarks figs. p. 523, BALSS 25.

Ommatocarcinus macgillivrayi note fig. p. 314, SAKAI 400.

Pachygrapsus marmoratus distr. on French Channel coasts, FAUVEL 147.

†*Palaeograpsus* sp. ind. descr. fig. p. 38, SALVO 402.

Paracleistostoma japonicum sp. n. off Simoda Japan, SAKAI Sci. Rep. Tokyo Bunrika Daig. 1B p. 321 col. fig.

Pinnotheres semperi and allied spp. descr. figs. p. 19, GORDON 184.

Ptychognathus onyx in Philippines note habitat p. 180, BALSS 27.

Retropluma denticulata note col. fig. p. 319, SAKAI 400.

Scopimera aff. *inflata* descr. figs. p. 15, GORDON 184.—*S. intermedia* sp. n. Johore Malay Pen., BALSS Zool. Anz. 106 p. 233 fig.

Sesarma cinerea habits observed in captivity, DUNCKER 138.—*S. maculata* sexual dimorphism p. 180, BALSS 27.—*S. (Sesarma) jacksoni* sp. n. Christmas I., BALSS Zool. Anz. 106 p. 230 fig.

Thaumastoplax orientalis recorded nr. Nagasaki fig. p. 316, SAKAI 400.

Tritodynamia taxonomy Japan spp. fig. p. 317, SAKAI 400.

Uca tangeri in Spanish waters descr. range col. pl. figs. p. 4, MIRANDA-Y-R 322; Habits observed on Morocco shores, HEDIGER 207, 208.

Utica gracilipes note fig. p. 234, BALSS 28.

Xenophthalmoides morsei descr. fig. p. 315, SAKAI 400.

OXYSTOMATA.

(Fams. Dorippidae, Calappidae, Leucosiidae, Raninidae.)

Actaeomorpha alvae sp. n. Society Is., BOONE Bull. Vanderbilt Mar. Mus. 5 p. 37 figs.

†*Calappilia diglypta* sp. n. Eocene Texas, STENZEL J. Paleont. 8 p. 51 figs.

Cyclodorippe bouvieri sp. n. off Puerto Rico W. I. RATHBUN Smiths. Misc. Coll. 91 no. 3 p. 1 pl.

†*Myra ? fijiensis* sp. n. Neogene Fiji, RATHBUN Bull. Bishop Mus. 119 p. 240 figs.

Philyra kanekoi sp. n. Kyūshū coasts, Japan, SAKAI Sci. Rep. Tokyo Bunrika Daig 1B p. 286 figs.

†*Ranina bittneri* descr. fig. p. 13, SALVO 402.

DROMIACEA.

(Fams. Prosoponidae, Homolodromiidae, Dromiidae, Dynomenidae, Homolidae.)

Dromia vulgaris development stages 5 pls., LEBOUR 287.

ANOMURA.

GALATHEIDEA.

(Fams. Aegleidae, Chirostylidae, Galatheidae, Porcellanidae.)

†*Palaeomunida defecta* descr. fig. p. 8, SALVO 402.

Porcellana phototropism in larva, FOXON 160.—*P. platycheles* autotomy experiments, HOADLEY 212.

HIPPIDEA.

Emerita (Hippa) asiatica small size of male figs., MENON 317.

Lophomastix brevirostris sp. n. W. Saghali coast, URITA Dobuts. Zasshi 46 p. 153 figs.

PAGURIDEA.

(Pomatochelidae, Paguridae, Coenobitidae, Lomisidae, Lithodidae.)

Birgus latro and other air-breathing Crustacea on Christmas I., HARMS 203.

Calcinus ornatus characters, range and habits in Gulf of Naples, FENIZIA 148.

Clibanarius tricolor effects of environmental experiments, KUNKEL 284.

Diogenes pugilator sexual dimorphism p. 2, MIRANDA-Y-R. 322.

Eupagurus and commensals; respiration frequency, physiology, RAFFY 375.—*E. bernhardus* physiology of nerve-muscle system, WIERSMA & HARREVELD 488; Parasitized by *Athelges paguri* and *Peltogaster paguri* simultaneously, PÉREZ 362.—*E. pri-deauxi* early stages; embryology, KRAJČIŠKA 279; Influence of serum on poison of *Adamsia*, CANTACUZÈNE & DAMBOVICEANU 79.

Pagurus as example of adaptation, PÉREZ 361.—*P. arrosor* reaction to stimulations, CATE-KAZEJEWA 82.

Sculptolithodes gen. n. (Lithodidae) for *S. derjugini* sp. n. Japanese seas, MAKAROW Zool. Anz. 108 p. 251 figs.

Macrura.

Economics of the Lobster fishery in the Gulf of St. Lawrence, TEMPLEMAN 456.

Faunal Lists.—Madagascar, ROUX 388; Gulf of St. Lawrence, FISSET 156.

NEPHROPSIDEA.

(Fams. Erymidae, Nephropsidae, Potamobiidae, Parastacidae.)

Astacus fluviatilis respiration physiology, SEGAAR 419; Development of "Keimdrüsen," FULIŃSKI 164; Action of caecodulates on lymphatic gland, GRÉGOIRE & LISON 186.—*A. astacus* and other Russian spp. distr. maps p. 46, *A. leptodactylus sartorius* W. Russia pp. 51, 69, *A. l. cubanicus* Don basin, *A. l. boreorientalis* Dwina and Ob basins pp. 51, 69 subsp. n. figs., BIRSTEIN & WINOGRADOW Zool. J. Moscow 13 Hft. 1.

Cambaroides dauricus wladivostokiensis Peter-the-Great Bay, C. d. koshevikowi Amurland pp. 56, 69 subsp. n., BIRSTEIN & WINOGRADOW Zool. J. Moscow 13 Hft. 1.—*C. japonicus* no. of chromosomes, NÜYAMA 342.

Cambarus list with key and figs. of Oklahoma spp., CREASER & ORTENBURGER 116.—*C. (Ortmannius) pearsei* sp. n. N. Carolina, CREASER Occ. Pap. Mus. Zool. Univ. Mich. no. 285 p. 1 figs.—*C. affinis* acclimatized in the Marne nr. Paris, ANDRÉ 8, 9; Recent introduction and spread in Germany, BOETTGER 47.

Enoplometopus occidentalis occurring on Natal coast, BARNARD 31.

Eutrichocheles, see below under Thalassinidea.

Faxonius, on the distribution and status of five isolated spp. in S.E. Missouri, CREASER 111.—*F. punctimanus* Missouri p. 1, *F. menae* Arkansas p. 5, *F. luteus* Missouri p. 7, *F. quadruncus* p. 10 Missouri spp. n. all figs., *F. immunis pedianus* subsp. n. Colorado, *F. creolanus* sp. n. Louisiana p. 16 figs. and notes on other spp., CREASER Occ. Pap. Mus. Zool. Univ. Mich. no. 275.—*F. propinquus* age, growth, sex-ratio, CREASER 114.—*F. virilis* at great depths and notes on colours etc. of other spp., CREASER 115.

Homarus vulgaris growth and moults in Irish Sea, W. C. SMITH 432; Influence of light on orientation of larva, BLUM 45; In the Black Sea, KONSULOV 273; PASPALEFF 358.—*H. gammarus* life history and habits, DEWBERRY 126.—*H. americanus* mating habits, TEMPLEMAN 457.

Nephrops norvegicus heterochromism p. 345, LEOPOLDSIEDER 290.

Potamobius astacus individual with two sternal arteries, DEFRETIN 122.—*P. astacus*, *P. leptodactylus* changes in blood salts, HUF 221.—*P. leptodactylus* myology of chelae, MAZOUÉ 315; Respiration physiology, WOLSKY & HOLMES 497; Cytology of sperm, REINHARD 383; Experiments on sensitiveness of regenerated antennule, WOLSKY & LISSMANN 499.

SCYLLARIDEA (= LORICATA).

Fams. Palinuridae, Scyllaridae.

Panulirus japonicus larval development figs., KINOSHITA 257.

GLYPHAEIDEA.

†*Pseudoglyphea* cf. *ancylochelis*, *P. grandis* in Lias of E. France note fig., THEOBALD 459.

THALASSINIDEA.

(Fams. Axiidae, Laomedidae,
Thalassinidae, Axianassidae,
Callianassidae.)

Callianassa californiensis observations on habits on Pacific coast of N. America, MACGINITIE 302.

†*Callianassa brazoensis* p. 53, *C. wechesensis* p. 55 spp. n. figs. Eocene Texas, STENZEL J. Paleont. 8.

Calocaris macandreae early larval stages, BULL 70.

Eutrichocheles modestus addt. desc. and figs. and affinities to Axiidae, not Nephropsidae, CHOPRA 92.

CARIDEA.

(Fams. Pasiphaeidae, Atyidae,
Hoplophoridae, Pandalidae, Alpheidae,
Hippolytidae, Palaemonidae,
Crangonidae, etc.)

Regeneration experiments and asymmetry in the Alpheidae, DARBY 118.

Alpheus dentipes normal and regenerative growth, DAWES 119; Growth-rate and heterogony, DAWES & HUXLEY 120.

Athanas nitescens structure of brain, BORANG 54.

Caridina a. nilotica, *C. a. togoensis* in Transvaal and N. Rhodesia, note, ROUX 390.—*C. buhleri* sp. n. New Ireland, ROUX Rev. Suisse Zool. 41 p. 219 figs.

Crangon vulgaris physiology; muscles of claws, VEIL 474; Mating, spawning and hatching habits, MEYER 320.

Leander czerniavsky lacustris subsp. n. freshwater Lake Khanka nr. Vladivostok, BULDOVSKY Bull. Far East Acad. nos. 1-3 1933 p. 47 figs.—*L. serratus* chromatophore control, STEPHENSON 443; Regeneration of lost appendages, NOUVEL 341.—*L. serratus* unisexual and *Lysmata seticaudata* hermaphrodite, comparative measurements etc., NOUVEL 340.

Macrobrachium jamaicense size in Texas, GEISER 175.—*M. ohionis* descr. distr. figs., MCCORMICK 300.

(N-4573 I)

Palaemon squilla nature of chromatophores, BEAUVALLET & VEIL 35.—*P. (Macrobrachium) petiti* sp. n. Madagascar and remarks on other Malagasy spp., ROUX Faune Colon. franç. 5 p. 537 figs.—*P. (Parap.) modestus brevinanus* subsp. n. New Ireland, ROUX Rev. Suisse Zool. 41 p. 228 figs.

Palaemonetes venephicus sp. n. Ussuri valley E. Siberia, BIRSTEIN & WINOGRADOW Zool. J. Moscow 13 Hft. 1 pp. 45, 68 figs.—*P. chankensis* sp. n. freshwater Lake Khanka nr. Vladivostok, BULDOVSKY Bull. Far East Acad. nos. 1-3 1933 p. 43 figs.

Pandalus borealis hermaphroditism and heterochromosomism and the structure of the genital organs, LEOPOLDSER 290.—*P. hypsinotus*, *P. h. meridionalis* range and distinctive characters in Japanese waters, URITA 468.

Spirontocaris and *Hippolyte* larval stages of Brit. Columbian species, NEEDLER 336.

STENOPIDEA.

[Vacant.]

PENAEIDEA.

(Fams. Peneidae, Sergestidae.)

The Penaeidea of Louisiana with a discussion on taxonomy classification structure, BURKENROAD 71.

Penaeida of Malayan seas, BALSS 26.

Acetes caroliniae structure distr. figs. p. 128, BURKENROAD 71.—*A. americanus limonensis* subsp. n. Limon Bay Panama Zone p. 99, *A. binghami* sp. n. Panama City p. 101 figs., BURKENROAD Bull. Bingham Coll. 4 no. 7.

Eusicyoninae subf. n. p. 116 for for *Eusicyonia* Stebbing, *E. dorsalis* descr. figs. p. 121, BURKENROAD 71.

Eusicyonia review of spp. p. 70, *E. parri* Bahamas p. 80, *E. disparri* L. California p. 83, *E. disedwardsi* L. California p. 86, *E. aliaffinis* Pacific coast Mexico p. 92, *E. disdorsalis* G. of Panama p. 96, spp. n. all figs., BURKENROAD Bull. Bingham Coll. 4 no. 7.

Parapeneopsis balli sp. n. coast Salvador with descr. figs. other spp., BURKENROAD Bull. Bingham Coll. 4 no. 7 p. 64.

Pelagopenaeus subg. n. for *Penaeus balboae* Faxon, BURKENROAD Bull. Amer. Mus. 68 p. 77.

Penaeopsis revision of genus p. 12, *P. (Metapenaeopsis) mineri* sp. n. L. California, BURKENROAD Bull. Bingham Coll. 4 no. 7 p. 25 figs.—*P. monoceros* p. 229, *P. intermedia* var. *anchista* note figs. p. 230, BALSS 26.

Penaeus setiferus p. 77, *P. brasiliensis* p. 88 descr. distr. biol. figs., BURKENROAD 71.

Pleoticus mülleri general. account; structure, habits, economics, figs., FESQUET 149.

Protrachypene gen. n. p. 43 for type *P. precipua* sp. n. p. 44 figs. Panama coast, BURKENROAD Bull. Bingham Coll. 4 no. 7 p. 43.

Solenocera vioscai sp. n. Louisiana (marine?), BURKENROAD Bull. Amer. Mus. 68 p. 65 figs.

Trachypeneopsis gen. n. for *Metapenaeus mobilispinis* Rathbun, BURKENROAD Bull. Bingham Coll. 4 no. 7 p. 40.

Trachypeneus curvirostris malaiana subsp. n. Malayan seas, BALSS Treubia 14 p. 234.—*T. (Trachysalambria) subg. n.* for type *T. curvirostris* p. 49; *T. (T.) similis pacificus* subsp. n. G. of Panama p. 50, *T. (T.) byrdi* sp. n. Panama p. 51 figs., *T. (T.) brevisuturæ* sp. n. Salvador p. 55 figs., BURKENROAD Bull. Bingham Coll. 4 no. 7.

Trachysalambria subgen. n. see *Trachypeneus*.

Transolenocera subg. n. for *Solenocera vioscai* (see above), BURKENROAD Bull. Amer. Mus. 68 p. 69.

EUPHAUSIACEA.

Habits, distribution, spawning and larval development of Antarctic Euphausiids, RUSTAD 395.

Red Sea Euphausiids, TORELLI 462.

Euphausia krohni life history on S.W. coast Ireland, FROST 163.—*E. sansoi* sp. n. Red Sea, TORELLI Mem. Com. talassogr. no. 208 p. 7 figs.

Pseudeuphausia colosii sp. n., TORELLI Mem. Com. talassogr. no. 208 p. 9 figs.

MYSIDACEA.

Abdominal muscles of Mysids, DANIEL 117.

Vertical migrations of Mysids in French waters p. 157, FAGE 144.

Faunal Lists.—Roumania, ANTONESCU, 12; Black Sea, BĂCESCU 22.

Gastrosaccus sanctus and other spp. notes p. 151, FAGE 144.

Gnathophausia zoëa abdominal muscles, DANIEL 117.

Lophogaster typicus abdominal muscles, DANIEL 117.

Mysis relicta reaction to light, CO₂ etc. and other habits in Lake Vettern Sweden, STÅLBERG 435; A glacial relict in a lake in the Volga basin, DECKSBACH 121.

Paralophogaster macrops sp. n. Red Sea, COLOSI Boll. Zool. Torino 5 p. 43 figs.

Paramysis spiritus and other spp. habits notes p. 155, FAGE 144.

Siriella armata and other spp. in French waters p. 144, FAGE 144.

SYNCARIDA

(= Anaspidacea).

Anaspides tasmaniae structure of nervous system and sense organs figs. p. 16, HANSTRÖM 199.

Bathynella nr. *chappuisi* descr. of a doubtful German form, KLIE 263.—*B. chappuisi balcanica* subsp. n. nr. Skoplje Yugo-Slavia, KARAMAN Mitt. Höhlen- u. Karstf. 1934 no. 1 p. 29 fig.

Parabathynella stygia nr. Skoplje descr. figs. p. 26, KARAMAN 238.

†*Uronectes fimbriatus* structure, affinities, distrib., CALMAN 76.

STOMATOPODA.

Indopacific Stomatopods taken by the "Alva" expedition (W. K. Vanderbilt) in 1931 descr. distr., references, figs. of all spp., BOONE 53.

Stomatopod larvae from Asia Negros, E. India seas fig. descr. p. 21, LEBOUR 286.

Stomatopod larvae from the Gt. Barrier Reef of Australia descr. figs. p. 376, FOXON 158.

Gonodactylus glabrous and other Indian spp. notes p. 40, CHOPRA 93.

Pseudosquilla ciliata, *P. oculata* notes p. 39, CHOPRA 93.

Squilla annotated list of spp. found near Singapore, TWEEDIE 463.—*S. mantis* innervation of the heart, ALEXANDROWICZ 5.—*S. latreillei* and other spp. from mouth of Hugli Bay of Bengal critical notes figs. etc., CHOPRA 93.—*S. neglecta* rediscovery and re-description Charleston harbour figs., LUNZ 298.

CUMACEA.

The pelagic phase of the Cumacea p. 179, FAGE 144.

Faunal Lists.—Gt. Barrier Reef, Queensl., FOXON 158; East Greenland, ZIMMER 505.

Bodotria scorpioides habits, vertical distr. p. 162, FAGE 144.

Campylaspis pileus sp. n. Gt. Barrier Reef Queensland, FOXON Gt. Barrier Reef Exped. Sci. Rep. 4 1932 p. 293 figs.

Diastylis bradyi structure and physiology of feeding mechanism, DENNELL 124.

Dimorphostylis australis sp. n. Gt. Barrier Reef, Queensland, FOXON Gt. Barrier Reef Exp. Sci. Rep. 4 1932 p. 390 figs.

Iphinoe species determination and habits p. 165, FAGE 144.

Sympodomma australiensis sp. n. Gt. Barrier Reef Q'land, FOXON Gt. Barrier Exp. Sci. Rep. 4 1932 p. 388 fig.

TANAIDACEA.

[Vacant.]

ISOPODA.

Histology of Zenkers organ in Iso-pods, MÖDLINGER 324.

Pelagic phases of Isopods p. 194, FAGE 144.

Subterranean Isopods of Aquitaine, HUBAULT 220.

Isopods of Norwegian waters, DONS 130.

(N-4573 l)

ASELLOTA.

Asellus meridanus on the lower Rhine, new for Germany, STAMMER 436.—*A. cavaticus montenigrinus* p. 23, *A. meridianus anophthalmus* p. 24 subspp. n. subterranean waters Montenegro, KARAMAN Zool. Anz. 108.—*A. (Proasellus) karamani* sp. n. cavern Yugo-slavia, REMY Arch. Zool. exp. gén. Notes et Rev. 76 p. 39 figs.

Microcharon gen. n. for *Microparasitus stygius* Karaman p. 44 also *M. latus* sp. n. p. 42 figs. Serbian wells and springs, KARAMAN Mitt. Höhlen-u. Karstf. 1934.

FLABELLIFERA.

Some Flabellifera of Indo-china, MONOD 326.

The British Sphaeromatidae descr. distr. synon. figs., OMER-COOPER & RAWSON 346.

Braga fluviatilis addt. descr. figs., CALABRESE 75.

Caecosphaeroma (Vireia) burgundum rupis-fucaldi var. n. underground waters of Aquitaine, HUBAULT Bull. Biol. Fr.-Belge 68 p. 67 figs.

Cirolana pumicea = *C. elongata* figs. p. 8, MONOD 326.

Cymothoa pulchra note fig. p. 12, MONOD 326.—*C. punctata* in the Ukraine note figs. p. 245, MARKEWITSCH 306.

Dynamene bidentata habitat and other notes p. 191, FAGE 144.

Eurydice pelagic habits on French coasts p. 184, FAGE 144.

Tecticeps japonicus sp. n. off Hokkaido, Japan, IWASA Proc. Imp. Acad. Tokyo 10 p. 370 figs.

VALVIFERA.

Synidotea variegata in Indo-china note fig. p. 6, MONOD 326.

EPICARIDEA.

Fixation of Bopyrids on their hosts, CAROLI 81.

Athelges paguri and *Peltogaster* infesting *Eupagurus*, PÉREZ 362.

ONISCOIDEA.

Distribution of Land Isopods and some critical notes on some of the early described species, ARCANGELI 16.

Critical notes on the so-called subfamily Holophiloscinae, MACCAGNO 299.

Sex ratios in Terrestrial Isopods, GEISER 176.

The Oniscidae of Denmark with descr. keys and figs., MEINERTZ 316.

Faunal lists.—Westphalia, VERHOEFF 475; Tirol, WERNER 484; Somaliland, ARCANGELI 17; Cuba and Haiti, BOONE 52.

Armadillidium (*Pleuramadillidium*) *omblae* and other spp. notes key figs. p. 298, STROUHAL 447.—*A. (Marginierum) marmoriragum*, *A. (M.) benaci* p. 243, *A. (M.) ponanense* p. 248 spp. n. Lake Garda region, VERHOEFF Zool. Anz. 108.

Armadillo insulanus sp. n. Samoa and note on range of the genus, ARCANGELI Boll. Mus. Zool. Anat. comp. Torino 43 p. 25 figs.

Buddelundiella armatu male pleopods and systematic status p. 1 figs., BRIAN 66.

Cubaris ignota sp. n. Kashmir, ARCANGELI Ann. R. Ist. Agr. Milano 1 p. 5 figs.—*C. ramsdeni* p. 489, *C. sanchezi* p. 592, *C. aguayoi* p. 593 all Cuba, *P. hendersoni* Haiti p. 595 all spp. n. all figs., BOONE Bull. Amer. Mus. 66.

Cyphobrebana pellegrinensis restonensis subsp. n. Lake Garda region Italy, VERHOEFF Zool. Anz. 108 p. 250.

Delatorreia gen. n. p. 585 for type *D. hoplites* sp. n. p. 586 figs. Cuba, BOONE Bull. Amer. Mus. 66.

Echinarmadillidium fruxgalii note figs. p. 292, *E. absolon* sp. n. p. 295 figs. Melida I. Adriatic, STROUHAL Zool. Anz. 108.

Hyloniscus riparius nature of the calcareous bodies and the Zenker organ, DUDICH 137.

Ligia exotica ganglion cells of heart, SUZUKI 449.—*L. bandiniana* salt requirements and reactions, BARNES 33.

Megatrichoniscus subg. n. for *Trichoniscus feneriensis* and other spp. p. 31, BRIAN 66.

Microcercus scortecii p. 64, *M. tarassoi* p. 66 spp. n. Somaliland ARCANGELI Boll. Mus. Zool. Anat. Torino 43 figs.

Nagara emarginata Sind valley p. 17, *N. pallida* Jelum valley p. 19 spp. n. ARCANGELI Ann. R. Ist. Agr. Milano 1.

Oniscus nodulosus note on appendages fig., VERHOEFF 475.

Philoscia briani descr. fig. p. 569, BOONE 52.—*P. muscorum*, *P. sylvestris* distinctive characters p. 274, VERHOEFF 475.

Porcellio the so-called hydrotaxis reaction discussed, WOLSKY 495.—*P. scaber* wanderings and migrations, FRITSCH 162.—*P. laevis* structure and function of hepatopancreas, PATANE 359, 360.—*P. (Euporcellio) tortonesi* Savona Prov. p. 4, *P. (Proporcellio) grandorii* Venezia Prov. p. 7, *P. (Porcellionides) apulicus* Bari Prov. p. 9, *P. (P.) sardiniae* Sardinia p. 12 all spp. n. all figs., ARCANGELI Boll. Lab. Zool. Agr. Milano 4 1932.—*P. (Mesoporcellio) simulator sublaevis* Canaries p. 250, *P. (Haloporcellio) lamellatus fagei* Gt. Salvage I. nr. Canaries p. 251 subsp. n., ARCANGELI Bull. Mus. Hist. nat. Paris (2) 6.

Porcellionides bermudezi sp. n. Cuba, BOONE Bull. Amer. Mus. N.H. 66 p. 572 figs.

Protracheoniscus sabaudus Karakorum Mts. p. 7, *P. dicaporiaccoi* Jelum valley p. 10, *P. desioi* Skardu p. 12, *P. stefanelli* Kashmir p. 14, *P. vacchellii* Dras p. 16 all spp. n. all figs., ARCANGELI Ann. R. Ist. Agr. Milano 1.

Pseudarmadillo carinulatus descr. figs. p. 574, *P. welchi* p. 577, *P. buscki* p. 582 spp. n. Cuba figs., BOONE Bull. Amer. Mus. 66.

Tracheoniscus camerani, *T. apenninorum* *T. arcuatus* critical notes figs. pp. 14, 18, ARCANGELI 14.—*T. feneriensis* male pleopods and affinities p. 11 figs., *T. alzonae* sp. n. in Sardinian cave p. 20 figs., BRIAN 66.—*T. (Spiloniscus) elizabethae* parthenogenesis in one of the races, VANDEL 470.

Trichorhina giannelli descr. fig. p. 571, BOONE 52.—*T. monocellata* sp. n. in "hothouse" in Copenhagen Botanical Garden, MEINERTZ Zool. Jahrb. Syst. 66 p. 256 figs.

Tylos niveus in Cuba descr. figs. p. 597, BOONE 52.

AMPHIPODA.

Pelagic phase in Amphipods p. 227, PAGE 144.

Degeneration in the Gammarid eye, WOLSKY 496.

Review of the Amphipods of Swedish waters with descr. keys and figs. of all the spp., OLDEVIK 344.

Subterranean Amphipods of Aquitaine, HUBAULT 220.

Cavernicolous Gammarids of Belgium, LERUTH 293.

Freshwater Amphipods of Roumania, DOBREANU & MANOLACHE 127.

GAMMARIDEA.

Deep-sea Gammarids from Dutch East India Seas, PIRLOT 369.

Amathillopleustes gen. n. (Amathillopsidae) for genotype, *A. alticoxa* sp. n. Dutch East Indies, PIRLOT Siboga Exped. 122 p. 205 figs.

Amathillopsidae fam. n. for *Amathilopsis* etc. p. 201, PIRLOT 369.

Amathilopsis australis descr. figs. p. 203, PIRLOT 369.

Apherusa bispinosa habitat, habits p. 211, PAGE 144.

Astyridae fam. n. for *Astyra* etc. p. 176, PIRLOT 369.

Bathyceradocus gen. n. (Gammaridae) for genotype *B. stephenseni* sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 224 figs.

Cheiriphotis delloyei sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 231 figs.

Corophium spp. found on the Atlantic coast of America p. 23, *C. simile* S. Carolina coast p. 28, *C. tuberculatum* Atlantic coast U.S.A. p. 29, *C. louisianum* Louisiana p. 30, SHOEMAKER Proc. Biol. Soc. 47.—*C. baconi* Peru coast p. 356, *C. californianum* California coast p. 359 spp. n. figs., SHOEMAKER J. Wash. Acad. 24.

Cyphocaris johnsoni sp. n. Puerto Rican Deep, SHOEMAKER Smiths. Misc. Coll. 91 no. 12 p. 1 figs.

Dexamine spinosa and other spp. distr. and other notes p. 216, PAGE 144.

Eucrangonyx gracilis in Vancouver I. descr. figs. p. 246, SAUNDERS 403.

Eusirus parvus sp. n. Dutch East Indies, PIRLOT Siboga Exped. 122 p. 210 figs.

Gammurus poison experiments, BENAZZI 36.—*G. chevreuxi* genetics of eye colour, SEXTON & CLARK 424; Structure and development of normal and mutant eyes, WOLSKY & HUXLEY 498.—*G. pulex* etc. as intermediate host of *Polymorphus* (Acanth.), SCHEER 409.—*G. lacustris* and other freshwater spp. in Germany p. 210, *G. fossarum bodanicus* subsp. n. Lake Constance p. 216 figs., SCHELLENBERG Zool. Anz. 108.—*G. limnaeus*, *G. confervicolus* in Vancouver I. note p. 5, SAUNDERS 403.

Guerneia coalita development of eyes; nocturnal habits figs. p. 223, PAGE 144.

Haploops tubicola structure of brain and eyes, SVENSSON 450.

Hyalella azteca in Vancouver I. descr. figs., SAUNDERS 403.

Hyperlopsis voringi descr. figs., STEPHENSEN 441.—*H. gibbosa* sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 167 figs.

Ischyrocerus enigmaticus sp. n. Kara Sea, GURJANOVA Zool. Anz. 108 p. 128 figs.

Melitoides gen. n. (nr. *Melita*) for *M. makarovi* sp. n. Kara Sea, GURJANOVA Zool. Anz. 108 p. 127 figs.

Metaphoxus pectinatus, *M. fultoni* distr., habitat, figs. p. 203, PAGE 144.

Meleusiroides gen. n. (Eusiridae) for genotype *M. keyensis* sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 218 figs.

Microniphargus gen. n. (nr. *Niphargus*) for *M. leruthi* sp. n. from cave in Belgium, SCHELLENBERG Zool. Anz. 106 p. 215 figs.

Niphargus note fig., KOHN 270; Occurs in surface as well as underground waters in Balkan Peninsula, SCHÄFFERNA 408.—*N. aquilex* taken nr. Giessen, KEIL 246.—*N. fontanus* with abnormal uropod, PIRLOT 370.—*N. orcinus virei*, *N. k. kochianus* and other spp. in Belgium notes figs., SCHELLENBERG 410.—*N. foreli thienemanni* subsp. n. Germany p. 200, *N. auerbachii* sp. n. Switzerland p. 201 figs., *N. foreli transsylvanicus* subsp. n. Transylvanian Alps p. 203 figs., *N. f. gebhardtii* Hungary p. 204 figs., *N. f. vornatscheri* Vienna

p. 205, *N. longicaudatus* Thuringia p. 207 all subspp. n. figs., SCHELLENBERG Zool. Anz. 106.—*N. putcanus speockeri* p. 32, *N. kochianus wolffi* p. 33, *N. k. pachypus* p. 35 subspp. n. all figs. Adelsberg nr. Trieste, SCHELLENBERG Mitt. Höhlen. u. Karstf. 1933 no. 2.—*N. anticolanus* sp. n. Fuggi, Roma Prov. and review of other Italian spp., D'ANCONA Arch. Zool. Torino 20 p. 93.—*N. stygius remyi* Novi-Bazar p. 330, *N. orcinus podgoricensis* Dalmatia p. 331 subspp. n. figs., KARAMAN Zool. Anz. 107.—*N. tatrensis valachicus* p. 104, *N. kochianus petrosani* p. 106 subspp. n. Roumania, DOBREANU & MANOLACHE Notat. biol. 1 figs.—*N. adei* Samothrace I. p. 216, *N. graecus* Greece p. 217 spp. n. both figs., KARAMAN Zool. Anz. 105.—*N. abrikosovi* sp. n. Armenia, BIRSTEIN Rep. lim. Sta. Lake Sevan 4 pp. 139, 161 figs.

Oradarea shoemakeri sp. n. Dutch East Indies, PIRLOT Siboga Exped. 122 p. 195 figs.

Ostioigammarus cari bosnensis Bosnia p. 327; *O. thoni semicarinatus* Dalmatia p. 329 subspp. n., *O. pungens pungentiformis* note fig. p. 328, KARAMAN Zool. Anz. 107.

Parastyra gen. n. (Astyridae) for genotype *P. longidactyla* sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 176 figs.

Pardaliscella lavrovi sp. n. Kara Sea, GURJANOVA Zool. Anz. 108 p. 124 figs.

Parhyale kurilensis sp. n. Kurile Is. littoral, IWASA J. Fac. Sci. Hokkaido Zool. 2 p. 1.

Perioculoides longimanus distr. habits p. 210, PAGE 144.

Pontogammarus robustoides aralychensis subsp. n. Armenia, BIRSTEIN Rep. lim. Sta. Lake Sevan 4 pp. 149, 164 fig.

Pseudocrangonyx asiaticus sp. n. subterr. waters S. Manchuria, UENO Annot. zool. jap. 14 p. 445 figs.

Pseudotiron longicaudatus sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 185 figs.

Regalia ? gracilimana sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 190 figs.

Rhachotropis lomonosovi sp. n. Kara Sea, GURJANOVA Zool. Anz. 108 p. 124 figs.—*R. sibogae* sp. n. Dutch E. Indies, PIRLOT Siboga Exped. 122 p. 216 figs.—*R. lobata* sp. n. Puerto Rican Deep, SHOEMAKER Smiths. Misc. Coll. 91 no. 12 p. 3 figs.

Rivulogammarus bolkaei sp. n. nr. Sarajevo, KARAMAN Zool. Anz. 107 p. 326 figs.—*R. stoliczkae* sp. n. Ladak, India p. 127, *R. pulex persicus* subsp. n. Persia p. 129, *R. kesslerianus werneri* subsp. n. Asia Minor p. 130, *R. balcanicus orientalis* subsp. n. Asia Minor p. 131, KARAMAN Zool. Anz. 106.

Socarnoides eugenovi sp. n. Kara Sea, GURJANOVA Zool. Anz. 108 p. 122 figs.

Synchelidium haplocheles in Bay of Biscay p. 209, PAGE 144.

Synopioides macronyx descr. fig. p. 173, PIRLOT 369.

Synpleonia gen. n. (Gammaridae) p. 1 for *S. clantoni* sp. n. p. 2 figs. in well in Kansas, CREASER Occ. Pap. Mus. Zool. Univ. Mich. no. 282.

Syrrhoe sp. descr. fig. p. 181, PIRLOT 369.

Talitroides dorrieni probably originally from New South Wales, SCHELLENBERG 412.

Talitropsis subg. n. see under *Talitrus*.

Talitrus (*Talitropsis* subg. n.) *topitotum* sp. n. terrestrial Ceylon, BURT Spolia zeylan. 18 p. 181 figs.

Tritaeta gibbosa in plankton Mediterranean, habits etc. p. 219, PAGE 144.

Westwoodilla longimana sp. n. Puerto Rican Deep, SHOEMAKER Smiths. Misc. Coll. 91 no. 12 p. 3 figs.

HYPERIDEA.

Streetsia nyctiphanes sp. n. with luminous organ Atlantic coast of Morocco, PAGE C.R. Acad. Sci. Paris 198 p. 1633 fig.

CAPRELLIDEA.

Caprella dentata chordotonal sense organs in antennae, WETZEL 486.

Cyamus ovalis, *C. erraticus* descr. figs. parasitic on *Berardius* in Japanese waters, IWASA 228.

PHYLLOCARIDA.

Catalogue of the Phyllocarida, v. STRAELEN & SCHMITZ 446.

†*Allolepis longicornis* Heintz is not a fish limb but part of the telson of *Heroldina rhenana* (Archaeostraca), GROSS 191.

†*Caryocaris minima* sp. n. figs. Ordovician N. Zealand and notes figs. other spp., CHAPMAN Trans. Proc. Roy. Soc. N.Z. 64 p. 111.

†*Echinocaris tudrensis* sp. n. Devonian Urals, CHERNYSHYEV Paleont. & Stratigraphy 1 p. 23 fig.

†*Hymenocaris bensoni* p. 108, *H. lepadoides* p. 109 spp. n. figs. Ordovician New Zealand, CHAPMAN Trans. Proc. Roy. Soc. N.Z. 64.

Nebalia bipes earlier stages of development, MANTON 305.

†*Rhinocaris ehlersi* sp. n. Devonian of Ohio, STEWART Amer. Midl. Nat. 14 p. 364 figs.

†*Rhinopterocaris bulmani* sp. n. *R. maccoyi tumida* var. n. figs. and notes, figs. other spp., CHAPMAN Trans. Proc. Roy. Soc. N.Z. 64 p. 113.

ENTOMOSTRACA.

(General Papers.)

Bionomics of Indian fresh water Entomostraca, SEWELL 422.

Faunal Lists.—Riesengebirge, Silesia, SCHÄFER 404; Poland, GROCHMALICKI, 188; Lake Molveno, Trentino, Italy, MONTI & STELLA 330; Tennessee, GREEN 185; Lake Winnipeg system, BAJKOV 23.

BRANCHIOPODA.

A phylogenetic study on the masticatory apparatus of the Branchiopods, ERIKSSON 141.

PHYLLOPODA.

Nervous system and sense organs of Phyllopods, HANSTRÖM 199.

Faunal Lists.—Tanganyika Terr., GROCHMALICKI 189; Salt Lakes, nr. Calcutta, SEWELL 423; Brazil, OLIVEIRA 345.

Apus cancriformis variation and races in N. Africa, GAUTHIER 171.—*A. granarius* external structure reviewed, GAUTHIER 170.—*A. lucasani* in Texas, GEISER 175.

Artemia salina respiration alimentation and other habits, MATHIAS 312; Phototaxis experiments, SEIFERT 420.

Branchinecta paludosa in the High Tatra, Czecho-Slovakia, HRABĚ 217.—*B. polonica* sp. n. Tatra highlands Poland structure, ecology etc., GAJL Mém. Acad. polon. 1924B p. 246 figs.

Branchinella kugenumaensis descr. figs. p. 337, HSÜ 219.

Branchipus swimming and other methods of progression, WERTHEIM 485.—*B. stagnatilis* physiology of early stages, MATHIAS & BOUAT 314; Copulation and breeding habits, MATHIAS & BOUAT 313; New find in Sweden, ANDER 7.

Chirocephalopsis convergens and other spp. time of appearance etc. in Czecho-slovakia, SCHÄFERNA 407.

Chirocephalus diaphanus feeding mechanism addt. notes, CANNON 78; Larval stages and other notes and photos, SCHNEIDER 417.—*C. wangi* sp. n. Nanking China and notes on other spp., HSÜ Contr. Biol. Lab. Sci. Soc. China 9 p. 332 figs.—*C. nankinensis* structure and development, HSÜ 218.

†*Eopteria* (?) *trilobata* sp. n. Ordovician Chosen, KOBAYASHI J. Fac. Sci. Univ. Tokyo Sect. ii 3 p. 493 figs.

†*Lepidocaris rhyniensis* reconstruction and morphology fig. p. 89, ERIKSSON 141.

†*Palaeoestheria* sp. in the Witteberg Series (? Devonian) S. Africa fig., RENNIE 385.

Streptocephalus jakubskii sp. n. Tanganyika Terr., GROCHMALICKI Prace Kom. nat. Poznan (B) 1 1921 pp. 142, 149 figs.

CLADOCERA.

Anatomy and physiology of the "Nackenschild" of the Cladocera, FRANKE 161.

Influence of temperature on the distr. of Cladocera, PACAUD 354.

Daily movements of Cladocera in Belgium, OYE & LUYTEN 353.

Phototropism and movement in Daphnids, VIAUD 477, 478.

Variation and speciation in Cladocera, WOLTERECK 500.

Sex differentiation in Cladocera, BERG 38.

Parthenogenesis and gamogenesis, depression in population and sex determination in Cladocera, BERG 37.

Artificial culture media for Cladocera, CHIPMAN 91; BOND 51.

Methods of measuring Cladocera, ISCHREYT 226.

Faunal Lists.—Estonia, LEPIKSAAR 291; Baltic, BOWKIEWICZ 60; Adelsberg caves nr. Trieste, RAMMNER 379; N. Italian lakes, TEDESCHI 453; Georgia (Transcaucasia), CHIKLÉEF 90; Kenya Colony, JENKIN 232.

Alona cambouei and other Kenya spp. shape of tail and other notes figs. p. 287, JENKIN 232.

Bosmina discussion and descr. of various races from Hawaiian Is. Philippines and elsewhere, AURICH 21.

Bythotrephes cederstroemi distr. distinctions, structure, etc. in Russia, ISCHREYT 223.

Camptocercus sp. descr. and discussion in Lake Brinzio, N. Italy, TEDESCHI 453.—*C. rectirostris abraui* var. n. Georgia, CHIKLÉEF Bull. Mus. Géorgie 7 p. 79.

Ceriodaphnia general account figs.. ISCHREYT 224.—*C. rigaudi* notes figs, p. 144, JENKIN 232.

Chydorus on forms in Tyrolese lakes, BREHM 63.—*C. robustus* note fig. p. 301, JENKIN 232.—*C. latus* note fig., SCHÄFER 404.

Diaphanosoma excisum stingelini nom. n. Kenya Colony, JENKIN Ann. Mag. N.H. (10) 13 p. 140 figs.

Daphnia methods of collecting with microphoto, INNES 222.—*D. pulex* descr. figs. in alpine lakes, Trentino pp. 108, 185, BALDI 24; Phototropism experiments, VIAUD 477, 478; Chromosomes, REY 386.—*D. longispina* review of local and geographical races figs., BERGER 40.—*D. magna* phototaxis experiments, WOJTUSIAK 493.—*D. glacialis* sp. n. Lago Rotundo, Trentino, Italy, PARAZAN Mem. Mus. Stor. nat. Venez. trident. 1 1931 p. 88 figs,

Evadne tergestina taken at Gt. Barrier Reef, Q'land. p. 395, FOXON 158.

Holopedium gibberum in the lakes of Trentino figs., EMILIA 140.

Ilyocryptus structure especially of mouth parts, affinities etc. figs. p. 199, ERIKSSON 141.

Leptodora diurnal vertical migrations in Lake Balaton, SEBESTYÉN 418.—*L. kindtii* absorption of pigments in intestine, McDUGALL & VERZÁR 301.—*L. hyalina* methods of preparation for exhibition and study, ECKERT 139.

Leydigia macrodonta lousi var. n. Kenya Colony, JENKIN Ann. Mag. N.H. (10) 13 p. 283 figs.

Macrothrix chevreuxi notes figs. p. 281, JENKIN 232.—*M. hirsuticornis* new to Denmark, habits, descr. of male, BERG 39.

Moina variation and need of revision p. 149, *M. dubia parva* descr. figs. p. 152, *M. d. baringoensis* var. n. p. 155 figs. Lake Baringo Kenya, JENKIN Ann. Mag. N.H. (10) 13.—*M. dubia* in Bengal note fig. p. 212, SEWELL 422.—*M. dubia lacustris* in Germany, RAMMNER 378.—*M. brachiata* distribution and causes of rarity, PACAUD 355.—*M. macrocopa* effect of heavy water on population growth, TERAQ & INOUE 458.

Ophryoxus gracilis structure especially of the mouth parts and masticatory apparatus figs. p. 173, ERIKSSON 141.

Pleuroxus aduncus transcaucasica var. n. Georgia, CHIKLÉEF Bull. Mus. Géorgie 7 p. 85.—*P. a. makaliensis* var. n. Kenya, JENKIN Ann. Mag. N.H. (10) 13 p. 296 figs.

Polyphemus pediculus general account figs., ISCHREYT 225.

Scapholeberis morphology, review of species and distribution figs., OCIOŚYNSKA-BANKIEROWA 343.

COPEPODA.

Vertical distribution of Copepods and causes, CLARKE 95.

Diurnal migrations of Copepods off Maine and Bermuda, CLARKE 94.

Copepods and temperature effects, COKER 100.

Larval development of freshwater Copepods, EWERS 142.

The development of some parasitic Copepods, GURNEY 196.

Notes on North American Harpacticoidea with remarks on methods of collection, taxonomy, descr. and figs. of various spp., COKER 98.

A review of the fresh-water free-living Copepods of South Africa with descr. and figs., KIEFER 255.

List of known cavernicolous Copepodes, CHAPPUIS 84.

Faunal Lists, Freshwater.—Dep. Côte-d'Or, France, ROY 392; Germany, KIEFER 249; PESTA 363; Poland, KOZMIŃSKI 278; RZÓSKA 397, 398; Estonia, VINKEL 479; Lake of Mantua, Italy, GALICO 167; Bulgaria, CHICHKOV 89; Western Siberia, RYLOV 396; North Kurile Is., KIKUCHI 256; Salt Lakes nr. Calcutta, SEWELL 423; Canada, WILLEY 489.

Faunal Lists, Cavernicolous.—Belgium, LERUTH 293; Germany, KIEFER 248; Adelsberg caves nr. Trieste, KIEFER 250.

Faunal Lists, Marine.—German Seas, PESTA 363; Baltic, BOWKIEWICZ 60; Penang and Perak seas, SEWELL 421; Hawaiian Is., CHAPPUIS 85; West Greenland waters, JESPERSEN 233.

Faunal Lists, Parasites.—Plymouth waters, LEIGH-SHARPE 289; Nr. Leningrad, MARKEWITSCH 310; DOGIEL & PETRUSCHEWSKY 128; Gulf of Finland, MARKEWITSCH 309; Rivers of the Ukraine, MARKEWITSCH 306; Dutch East Indian seas, LEIGH-SHARPE 288.

Acartia tonsa has replaced *A. bifilosa* in the brackish water of the Dutch coast, REDEKE 382.—*A. (Acartiella) sewelli* sp. n. p. 335, *A. (Acanthacartia) chilkaensis siltangi* var. n. p. 336 figs. Burma, STEUER Rec. Ind. Mus. 36.

Amallothrix gracilis in W. Greenland waters fig. p. 89, JESPERSEN 233.

Arthrochordeumium asteromorpha sp. n. endoparasitic Ophiurid *Asteromorpha* off Amboina E. Indies, STEPHENSEN Vidensk. Medd. 93 p. 201 figs.

Attheyella northumbrica americana and other N. Amer. spp. descr. taxon. figs. p. 106, COKER 98.—*A. (Brehmiella)*

ussuriensis sp. n. Ussuri region E. Siberia, RYLOV Trav. Inst. Zool. Acad. Sci. Leningrad 1 p. 264 figs.—*A. (B.) illinoisensis antiqua* form. n. Connecticut, KIEFER Zool. Anz. 108 p. 206 figs.

Bomolochus efficatus sp. n. Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 13 figs.

Brachiella superba sp. n. on *Malacocephalus* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 39 figs.

Bryocamptus arcticus notes figs., SCHAFER 404.—*B. pygmaeus* effects of crossing two races, ROY 393.—*B. tarnogradskyi* p. 264, *B. spinulosus* p. 266, *B. aqueductus* p. 267 spp. n. all figs. Caucasus, BORUTZKY Zool. Anz. 107.—*B. vejtdorskyi minutiformis* form. nov. Connecticut, KIEFER Zool. Anz. 108 p. 206 fig.—*B. zschokkei alleganiensis* subsp. n. New York State p. 93 figs., *B. australis* sp. n. N. Carolina p. 98 figs., *B. hiemalis brevifurca* subsp. n. N. Carolina p. 101 figs., COKER J. Elisha Mitchell Soc. 50.

Bryocyclops on spp. occurring in Java and their habits, MENZEL 318.

Calanus finmarchicus vertical distr. and light intensity off Plymouth, RUSSELL 394; Seasonal changes in biomass in Plymouth area, BOGOROV 48; Seasonal changes in weight in Loch Fyne, ORR 348; Seasonal distribution, size, weight etc. in Loch Striven, MARSHALL & others, 311; Horizontal distr., variation, propagation in W. Greenland seas p. 10, JESPERSEN 233; Digestive ferments, BOND 50.—*C. finmarchicus*, *C. hyperboreus* life history, distr. and biology off Norway, SØMME 433.

Caligus and allied genera, developmental stages p. 179, GURNEY 196.—*C. dubius* descr. fig. p. 19, *C. eventilis* on Pomacentrid fish p. 21, *C. mirabilis* on *Balistes* p. 22, *C. mordax* p. 26 spp. n. all figs. Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123.—*C. rotundigenitalis* sp. n. on *Lutjanus* nr. Chefoo China, YU Bull. Fan Memorial Inst. 4 p. 118 2 pls.

Cancerilla durbanensis sp. n. on Ophiurid *Amphipolis* off Durban, STEPHENSEN Vidensk. Medd. 93 p. 198 fig.

Cancerillopsis gen. n. (nr. *Cancerilla*) for genotype *C. nanaimensis* sp. n. on Ophiurid *Amphiodia* Vancouver I. coast, STEPHENSEN Vidensk. Medd. 93 p. 199 figs.

Candacia falcifera in W. Greenland seas, descr. figs. p. 118, JESPERSEN 233.

Canthocamptus (*Pentacamptus* subg. n.) for type *C. [P.] hiatus* sp. n. p. 77 figs., *C. douweanus* nom. n. p. 80, *C. abatgamensis* p. 81, *C. subgracilis* p. 85 spp. n. Quebec Prov. all figs., WILLEY Trans. Canad. Inst. 20.—*C. staphylinoides sinuatus* subsp. n. Montana, COKER J. Elisha Mitchell Soc. 50 p. 88 figs.

Cardiodectes rubosus sp. n. on *Apogon* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 38.

Clavella uncinata developmental stages p. 196, GURNEY 196.

Cletoamptus brehmi sp. n. Guatemala p. 143 figs. and note on *C. confluens meridionalis*, KIEFER Zool. Anz. 105 figs.—*C. dominicanus* sp. n. S. Domingo, KIEFER Zool. Anz. 108 p. 232 figs.

Cyclopina minuta sp. n. Hooghly river Bengal, SEWELL Rec. Ind. Mus. 36 p. 85 figs.

Cyclops discussion of the taxonomy and classification of the subgenus, KOZMIŃSKI 277; Effect of temperature especially on development, COKER 99.—*C. sensitivus* rediscovered in subterranean waters nr. Bregenz, PESTA 364.—*C. strenuus* systematic status, KOZMIŃSKI 276; Descr. figs., alpine lakes Trentino, BALDI 24.—*C. viridis* life history and larval stages, PINE 368.—*C. (Cyclops) silesicus* nom. n. pro *C. (C.) kieferi* Schäfer nec Chappuis, SCHÄFER Zool. Anz. 105 p. 224.—*C. (Diacyclops) unisetiger* found nr. Pyrmont, Germany, descr. p. 28, KLE 263.—*C. (D.) cerberus* sp. n. cave in Austria, CHAPPUIS Bul. Soc. Sti. Cluj 8 p. 212 figs.—*C. affinis* in Quebec Prov. new to N. Amer., notes and figs. on other Canadian spp. p. 87, WILLEY 489.—*Cyclops vernalis* discussion of taxonomy and characters, experimental breeding etc. fig. p. 265, *C. venustoides* p. 273, *C. exilis* p. 279 figs. spp. n. Chapel Hill U.S.A., COKER J. Elisha Mitchell Soc. 49.—*C. vernalis* influence of temperature on form, COKER 96.—*C. phaleratus* and other N. Amer. spp.

larval development, EWERS 142.—*C. (Acanthocyclops) pilosus* Connecticut p. 269, *C. (Diacyclops) nearcticus* Massachusetts p. 270, *C. (Metacyclops) dimorphus* California p. 271 spp. n. all figs., KIEFER Zool. Anz. 107.—*C. (Microcyclops) dubitabilis* sp. n. Haiti, KIEFER Zool. Anz. 108 p. 229 figs.

D'Arcythompsonia inopinata sp. n. off Vladivostok, SMIRNOV Zool. Anz. 108 p. 118 figs.

Diaptomus range of freshwater spp. in France, ROY 392; Occurrence and movements in Lake Balaton, Hungary, KORTASZ 274.—*D. bacillifer* descr. figs. in alpine lakes, Trentino p. 176, BALDI 24.—*D. denticornis molvenensis* var. n. Lake Molveno, Italy, STELLA Boll. Zool. Torino 4 p. 197 figs.—*D. denticornis molvenensis* [subsp. n.] Lake Molveno Italian Tyrol, MONTI & STELLA Mem. Mus. Stor. nat. Venez. trident. 2 p. 82 figs.—*D. steindachneri* in Albania note figs., MONTI 329.—*D. tracicus* sp. n. Bulgaria with notes on other spp., CHICHLOV Annu. Univ. Sofia 20 pt. 2 1924 pp. 47, 57 figs.—*D. theeli lithuanica* var. nov. Lithuania, GROCMALICKI Prace Kom. mat. Poznan (B) 1 1921 pp. 42, 51 figs.—*D. okadai* sp. n. freshwater Hokkaido, Japan, HORASAWA Annot. zool. jap. 14 p. 369 figs.—*D. indicus* sp. n. Hooghly river Calcutta p. 73, *D. viduus* descr. note fig. p. 75, SEWELL Rec. Indian Mus. 36.

Dichellina gen. n. (nr. *Dichelestium*) for type *D. phormosomae* sp. n. endoparasite Echinid *Phormosoma* off Mindanao P.I., STEPHENSEN Vidensk. Medd. 93 p. 207 figs.

Dysgamus murrayi descr. figs. p. 28, LEIGH-SHARPE 288.

Elaphoidella proserpina sp. n. cave nr. Lunz Austria, CHAPPUIS Bul. Soc. Sti. Cluj 8 p. 214 figs.—*E. dispersa* sp. n. Hawaiian Is., CHAPPUIS Bul. Soc. Sti. Cluj 7 p. 633 figs.

Epibranchiella impudica the copepod stage p. 215, GURNEY 196.

Epiclavella gen. n. (nr. *Clavellisa*) p. 133 for *E. chinensis* sp. n. on *Coilia* nr. Amoy, China p. 134 figs., YU Bull. Fan Memorial Inst. 4.

Epilabidocera amphitrites larval development, M. W. JOHNSON 236.

Ergasilus and other fish-parasites and their occurrence in England, GURNEY 195.—*E. minor* sp. n. on *Tinca* in Germany, HALISCH Zool. Anz. 106 p. 317 figs.—*E. briani* sp. n. on *Osmerus* nr. Leningrad, MARKEWITSCH Trav. Soc. Nat. (Sect. Zool.) 62 pp. 303, 308 figs.—*E. briani* p. 130 figs., *E. wilsoni* p. 136 figs. spp. n. Leningrad distr. latter on *Leuciscus*, MARKEWITSCH Mem. Soc. ent. ital. Genova 12.—*E. sieboldi*, *E. nanus* and other spp. in Ukraine descr. figs. p. 225, MARKEWITSCH 306.

Euchaeta norvegica larval stages, NICHOLLS 338; Weight and chemical composition, ORR 349.—*E. wilsoni* sp. n. W. Greenland seas, JESPERSEN Medd. Grønland 79 no. 10 p. 69 figs.

Eucyclops serrulatus and allied spp. comparative systematics and variation, ŠRÁMEK-HUŠEK 434.—*E. nagasaki* sp. n. subterranean pool, Shinano, Japan. UENO Proc. Imp. Acad. Tokyo 10 p. 229 figs.; In a well in S. Manchuria descr. fig. p. 449, UENO 464.—*E. bondi* sp. n. Haiti, KIEFER Zool. Anz. 108 p. 228 figs.

Gaetanus robustus descr. limbs, figs. p. 63, JESPERSEN 233.

Galeorhinus galeus note fig. p. 113, LEIGH-SHARPE 289.

Gloiopotes watsoni sp. n. in *Histiophorus* off Ceylon, KIRTISINGHE Parasitol. Cambridge 26 p. 167 17 figs.

Haemobaphes dilectus sp. n. on *Gobius* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 38 figs.

Halicyclops exiguus sp. n. Haiti, KIEFER Zool. Anz. 108 p. 227 figs.

Hatschekia quadrabdominalis sp. n. on *Holocentrus* nr. Cheefoo China, YU Bull. Fan Memorial Inst. 4 p. 127 figs.

Heliogabalus gen. n. (Ventriculinidae) for *H. pulvauratus* sp. n. on *Aspidosiphon* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 32 figs.

Heterostylus major descr. figs. p. 109, JESPERSEN 233.

Humphreysia gen. n. (Chondracanthidae) for *H. floreata* sp. n. on *Neobythites* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 14 figs.

Immanthe gen. n. (Chondracanthidae) for *I. campanulata* sp. n. on *Paracentropogon* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 15 figs.

Labidocera gangetica sp. n. Hooghly river, SEWELL Rec. Ind. Mus. 36 p. 79.

Lamproglana pulchella descr. figs. in Ukraine p. 233, MARKEWITSCH 306.

Laophonte bengalensis sp. n. Bengal, SEWELL Rec. Ind. Mus. 36 p. 98 figs.

Lepeophtheirus pectoralis parasitic habits and physiology of sense organs, STEKHOVEN 438.—*L. perpes* sp. n. on *Anyperodon* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 26 figs.

Lernaeenicus seeri sp. n. in *Cybium* off Ceylon, KIRTISINGHE Parasitol. Cambridge 26 p. 173 4 figs.—*L. gnathonicus* on *Pomacanthus*, *L. gnavus* on *Polyipnus* spp. n. Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 34 figs.

Lernanthropus heteropodus sp. n. on *Konosirus* nr. Cheefoo China, YU Bull. Fan Memorial Inst. 4 p. 123 figs.

Lichomolgus brevicaudis sp. n. on *Pinna* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 11 figs.

Limnocletodes secundus sp. n. Uttarbhag Bengal, SEWELL Rec. Ind. Mus. 36 p. 101 figs.

Mantridae fam. n. for *Mantra* gen. n. for *M. speciosa* sp. n. in *Chama* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 8.

Maraenobiotus brucei caucasicus subsp. n. Caucasus, BORUTZKY Zool. Anz. 107 p. 268 fig.

Mesochra meridionalis descr. figs. p. 96, SEWELL 423.

Mesocyclops leuckarti, *M. rylovi* descr. figs. p. 88, SEWELL 423.—*M. (Thermocyclops) consimilis* sp. n. Port. East Africa, KIEFER Zool. Jahrb. (Syst.) 65 p. 173 figs.

Metridia longa vortical distr. in W. Greenland waters p. 93, JESPERSEN 233.

Mimacheres gen. n. (Ascomyzontidae) for *M. collyra* sp. n. on *Errina*, Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 10 figs.

Monstrilla helgolandica descr. figs. male and female, *M. sericornis* = ♂ *M. helgolandica*, GALLIEN 168.

Nitocra platypus pietschmanni subsp. n. Hawaiian Is., CHAFFUIS Bull. Soc. Sti. Cluj 7 p. 635.

Notodelphys matronalis sp. n. on *Ascidia* Dutch East Indies, LEIGH-SHARPE Siboga Exped. livr. 123 p. 4 figs.

Oithona horai sp. n. Uttarbhag nr. Calcutta, SEWELL Rec. Ind. Mus. 36 p. 82 figs.

Ophioika gen. n. for *O. ophiacanthae* sp. n. endoparasite Ophiurid *Ophiocantha* Bali sea E. Indies, STEPHENSEN Vidensk. Medd. 93 p. 205 figs.

Panaetis incamerata parasitic on *Trochus* of Andaman Is. descr. figs., MONOD 327; Descr. figs., habitat p. 309, MONOD & DOLLFUS 328.

Parabotryllophilus gen. n. (Bothryllophilidae) for *P. arrisio* sp. n. on *Styela* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 6 figs.

Paranthesius taxonomy and nomenclature p. 316, MONOD & DOLLFUS 328.—*P. rostratus* a parasite in mantle cavity of *Cardium*, ATKINS 19.

Peniculus elegans on *Chromis*, *P. communis* on *Atherina* spp. n. Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 35 figs.

Pennella sagitta? infesting *Diodon* in Ceylon waters, KIRTISINGHE 258.

Pentacamptus subg. n. vide *Canthocamptus*.

Philodopus (*Achtheinus*) *intermedius* descr. figs. p. 120, YU 504.

Piratasta gen. n. (Dichelesthidae) for *P. virgatula* sp. n. on *Laternula* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 28 figs.

Pseudocongericola gen. n. (nr. *Congericola*) p. 129 for *P. chefoonensis* on gills *Muraenesox* nr. Cheefoo, China p. 131 figs., YU Bull. Fan Memorial Inst. 4.

Pseudodiptomus nostradamus systematic status and relations to allied spp. p. 84, BREHM 64.

Rebelula cardusa sp. n. on *Hymenocephalus* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 39 fig.

Rhinocalanus larval development, GURNEY 194.

Scheherazade gen. n. (Chondracanthidae) for *S. scheherazade* sp. n. on *Symphurus* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 16 figs.

Schizopera haitiana p. 230, *S. triacantha* p. 231 spp. n. figs. Haiti, KIEFER Zool. Anz. 108.

Spelaeocamptus gen. n. for type *Canthocamptus spelaeus* Chappuis, CHAPPUIS Arch. Zool. exp. gén. 76 p. 46.

Stenkelia longifurca sp. n. Piali river Bengal, SEWELL Rec. Ind. Mus. 36 p. 94 figs.

Strongylopleura pruvoti suppl. note fig. p. 315, MONOD & DOLLFUS 328.

Tachidius sp. note figs. p. 103, SEWELL 423.

Thanodectes gen. n. (Lernaeidae) for *T. semaphorus* sp. n. on *Apogon* Dutch East Indies, LEIGH-SHARPE Siboga Exped. 123 p. 37 figs.

Tisbe furcata early stages development and yolk formation, WITSCHI 492.

Tortanus discrudatus development and larval stages, JOHNSON 235.

Tracheliastes polycopus and other spp. in Ukraine descr. figs. p. 237, MARKEWITSCH 306.—*T. soldatovi* sp. n. on *Accipenser* in Amur River, MARKEWITSCH Bull. Fan Memorial Inst. 4 p. 241 figs.

Tropodiptomus malaicus in Bali, taxonomy and distribution figs. p. 56, BREHM 64.

Ventriculinidae fam. n. for *Ventriculina* and *Heliogabalus* gen. n. p. 32 (see above), LEIGH-SHARPE 288.

BRANCHIURA.

Argulus foliaceus structure and function of breathing organ, JIROVEC & WENIG 234.

OSTRACODA.

Breeding habits and structure of Ostracods, KLIE 262.

A pelagic phase in marine Ostracods, FAGE 143.

Parthenogenetic Ostracods and genetics, LOWNDES & MACBRIDE 295.

Limestone forming Ostracods in Sweden, HADDING 197.

Sexual dimorphism in fossil Ostracods, ALEXANDER 1.

Orientation of fossil Ostracods: further notes, KUMMEROW 283; WARTHIN 482.

Ostracods and stratigraphy, WEBER 483.

Ostracods of Ohio with descr. key figs. and many new spp., FURTOS 165.

Faunal Lists, Fossil.—Ordovician, Iowa and Ontario, KAY 245; Silurian Greenland, POUlsen 371; Devonian, Oklahoma, CORYELL & CUSKLEY 104; Michigan, WARTHIN 481; Carboniferous Texas, CORYELL & BILLINGS 102; CORYELL & BOOTH 103; CORYELL & SAMPLE 107; Oklahoma, CORYELL & OSORIO 105; WILSON 490; Kansas etc., HARRIS & LABLICKE 204; Carboniferous and Permian, Kansas, KELLET 247; Permian, Texas, CORYELL & ROGATZ 106; Cretaceous Holland v. VEEN 473; Texas, ALEXANDER 2; MORROW 333; Oklahoma, VANDERPOOL 471; S. Dakota, ROTH 387; Eocene, Texas, ALEXANDER 3; Miocene Czechoslovakia p. 57, OPPL 347.

†*Aechmina truncata* p. 4, *Æ. longispina*, *Æ. serrata* p. 6 spp. n. figs. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. no. 748.

†*Albanella* gen. n. (Beyrichiidae) for genotype *A. gouldi* sp. n. Carboniferous Kansas, HARRIS & LABLICKE Amer. Midl. Nat. 13 p. 397 figs.

†*Amphissites irregularis* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 261 figs.—*A. tenuis* sp. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 215 figs.

†*Antiparaparchites* gen. n. p. 387 (Leperditellidae) for genotype *A. reversus* sp. n. p. 388 figs. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13.

†*Argilloecia faba* p. 213, *A. subcylindrica* p. 214 spp. n. figs. Eocene Texas, ALEXANDER J. Paleont. 8.

†*Artifactella* gen. n. (Bairdiidae) for genotype *A. tomahawki* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 269 figs.

Asterope mariae life history, habits and reactions, FAGE 143, 144.

†*Bairdia summa* p. 170, *B. subvexa* p. 172, *B. acetalata* p. 173 spp. n. Carboniferous Texas, CORYELL & BILLINGS Amer. Midl. Nat. 13.—*B. pennata* nom. n. pro *B. angulata* Coryell & Sample 1932 preoc., CORYELL & SAMPLE Amer. Midl. Nat. 14 p. 187.—*B. hurwitzi* p. 262, *B. pinnula* p. 263, *B. samplei*, *B. scholli* p. 264 spp. n. all figs. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14.—*B. angulata* p. 262, *B. rogatzii* p. 264 spp. n. figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13.—*B.* descr. spp. from Carboniferous and Permian of Kansas, *B. radlerae* p. 125, *B. hooverae*, *B. deloi* p. 126, *B. marmorea* p. 127, *B. kansasensis* p. 128, *B. verwiebei* p. 129, *B. perincerta*, *B. geisi* p. 132, *B. hoffmanae*, *B. powersi* p. 133, *B. chasae* p. 135, *B. folgeri* p. 134, *B. forakerensis*, *B. nevensis* p. 137 all sp. n. Carboniferous and Permian Kansas all figs., KELLET J. Paleont. 8.—*B. bulleta* Texas p. 404, *B. maxeyi* Kansas p. 405 spp. n. figs. Carboniferous, HARRIS & LABLICKE Amer. Midl. Nat. 13.—*B. trojana* sp. n. Carboniferous Oklahoma, WILSON J. Paleont. 7 p. 418 figs.—*B. ubaghsi* p. 90, *B. trigona*, *B. decumana* p. 93, *B. kunradensis* p. 94, *B. acuticauda*, *B. cretacea*, *B. pseudocretacea* p. 104, *B. stiringi*, *B. binkhorsti*, *B. pentagonalis* p. 104, *B. crassitesta*, *B. supplanata*, *B. pulchra* p. 109, *B. cingulata* p. 110, *B. limburgensis* p. 115, *B. longa*, *B. biloculata* p. 116, *B. dentifera*, *B. parva* p. 121, *B. amphiplana* p. 128 spp. n. Cretaceous Limburg all figs., v. VEEN Nat. Maandbl. 23.—*B. suborbiculata* sp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 215 fig.—*B. subdeltoidea* recorded for Oligocene Alabama descr. fig., HOWE 216.

†*Bairdiocypris morrisonensis* p. 401, *B. trapezoidalis* p. 402 spp. n. figs. Cretaceous, S. Dakota, ROTH J. Paleont. 7.

†*Bassleratia* gen. n. (Beyrichiidae) for genotype *B. typa* sp. n. Ordovician Ontario, KAY J. Paleont. 8 p. 341 figs.

†*Bellornatia* gen. n. (Beyrichiidae) for genotype *B. tricollis* sp. n. Ordovician Iowa, KAY J. Paleont. 8 p. 342 figs.

†*Bicornella* gen. n. (Primitiidae) for type *B. tricornis* sp. n. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. no. 748 p. 3 figs.

†*Birdsullella* gen. n. (Cytherellidae) for *B. simplex* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 271 figs.

†*Brachyocythere plena* p. 216, *B. interrassalis*, *B. formosa* p. 217, *B. foraminosa* p. 218 spp. n. Eocene Texas figs., ALEXANDER J. Paleont. 8.

†*Burllella* gen. n. (Bairdiidae) for genotype *B. pecanata* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 268 figs.

†*Bythoocypris centralis*, *B. scapha*, *B. procera* spp. n. Carboniferous Texas, CORYELL & BILLINGS Amer. Midl. Nat. 13 p. 174 figs.—*B. texensis* p. 266, *B. palopintoensis*, *B. semicirculus* p. 267 spp. n. figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13.—*B. fabulites* nom. n. pro *B. rotunda* preocc. Warthin in CORYELL & OSORIO 101 p. 35.—*B. gallowayi* p. 35, *B. faba* p. 36 spp. n. figs. Pennsylvanian Oklahoma, CORYELL & OSORIO Amer. Midl. Nat. 13.—*B. bisoni* p. 419, *B. bullifera* p. 420 spp. n. figs. Carboniferous Oklahoma, WILSON J. Paleont. 7.—*B. devonica borealis* var. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 221 fig.—*B. limburgensis* sp. n. Cretaceous Limburg, v. VEEN Nat. Maandbl. 23 p. 131 figs.

Candocypris gen. n. p. 458 for *C. osburni* sp. n. p. 459 figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

Candona semicognita sp. n. Silesia, SCHÄFER Bul. Soc. Sti. Cluj 7 p. 563 figs.—*C. schellenbergi* nr. Bregentz p. 193, *C. brehmi* Japan p. 197 spp. n. figs. both in subterranean waters, KLE Zool. Anz. 106.—*C. intermedia* p. 474, *C. ohioensis* p. 475, *C. uliginosa*, *C. decora* p. 477, *C. distincta* p. 478, *C. scopulosa* p. 479, *C. truncata* p. 480, *C. inopinata* p. 481, *C. elliptica* p. 482, *C. exilis*, *C. eriensis* p. 483, *C. punctata* p. 485 spp. n., *C. stagnalis longisetosa* var. n. Ohio all figs., FURTOS Ohio State Univ. Bull. 5.

†*Cavellina lintris* p. 273, *C. jejuna* p. 274 spp. n. figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13.—*C. arcuata* sp. n. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13 p. 389 figs.

†*Ceratocypris* gen. n. for genotype *C. symmetrica* sp. n. Silurian Greenland, POULSEN Medd. Grønl. 72 no. 1 p. 38.

Chlamydotheca leuckarti in Dutch Guiana taxonomic note, male from Peru descr. p. 79 figs., BREHM 65.

†*Condracypris acuminata*, *C. arcuata* p. 10, *C. parallela*, *C. elongata*, *C. hemispherica* p. 11, *C. similis* p. 12 spp. n. figs., CORYELL & CUSKLEY Amer. Mus. Nov. no. 748.

†*Cornigella longispina* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 254 figs.

†*Coryella* gen. n. (Primitiidae) p. 397 for genotype *C. stovalli* sp. n. p. 398 figs. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13.

†*Ctenobolbina granosa* descr. fig. p. 7, CORYELL & CUSKLEY 104.

Cycloocypris sharpei p. 460, *C. ampla* p. 461 spp. n. figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

Cypricercus splendida p. 455, *C. tincta* p. 456 spp. n. figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

Cypridopsis humilior sp. n. Madagascar and note on taxonomy of allied genera, GAUTHIER Bull. Soc. zool. Fr. 59 p. 73.—*C. pustulosa* sp. n. Ohio, FURTOS Ohio State Univ. Bull. 5 p. 431 figs.

Cyprinotus imus sp. n. Madagascar, GAUTHIER Bull. Soc. zool. Fr. 59 p. 382 figs.—*C. glaucus* p. 444, *C. fluviatilis* p. 445 spp. n. figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

Cypris ravenala sp. n. Dutch Guiana, BREHM Zool. Anz. 108 p. 74 figs.

†*Cythereis alexanderi* sp. n., *C. a. abbreviata* var. n., *C. niobrarensis* sp. n. p. 203, *C. subgracilis* sp. n. p. 204 all figs. Cretaceous Kansas, MORROW J. Paleont. 8.—*C. subgoodlandensis* sp. n. Cretaceous Oklahoma, VANDERPOOL J. Paleont. 7 p. 410 figs.—*C. midwayensis* p. 219, *C. cancellosa*, *C. sculptilis* p. 221, *C. (Pterygocythereis) lemniscata* p. 222 spp. n. all figs. Eocene Texas, ALEXANDER J. Paleont. 8.

†*Cytherella tongia* sp. n., *C. gloria* nom. n. pro *C. intermedia* Warthin preoc. p. 271, *C. watkinsi*, *C. proxima* p. 272 spp. n. figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13.—*C. footei* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14

p. 270 figs.—*C. molaris* sp. n. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13 p. 389 figs.—*C. kansasensis*, *C. ? unilacuna* spp. n. Cretaceous Kansas, MORROW J. Paleont. 8 p. 202 figs.—*C. fredericksburgensis* Cretaceous Texas p. 308 figs., *C. paenovata* Taylor Formation Texas p. 309 spp. n. figs., ALEXANDER Amer. Midl. Nat. 13.—*C. tumidosa* p. 209, *C. turgidula* p. 210, *C. excavata* p. 211, *C. symmetrica* p. 212 spp. n. all figs. Eocene Texas, ALEXANDER J. Paleont. 8.—*C. atrata* sp. n. Miocene Colombia, TOLMACHOFF Ann. Carnegie Mus. 23 p. 283 figs.

†*Cytherelloidea subgoodlandensis*, *C. rhomboidalis* spp. n. Cretaceous Oklahoma, VANDERPOOL J. Paleont. 7 p. 409 figs.—*C. tombigeensis* p. 29 sp. n., *C. t. delicata* var. n., *C. nanafaliensis*, *C. veatchiana*, *C. smithvillensis* p. 30, *C. bastropensis*, *C. danvillensis*, *C. montgomeryensis* p. 31, *C. ouachitensis* p. 32 all Eocene, *C. hiwanneensis*, *C. alabamensis*, *C. wicksburgensis* p. 33 Oligocene, *C. leonensis* p. 34 Miocene from Alabama, Texas, Louisiana, Mississippi and Florida all figs., HOWE J. Paleont. 8.

†*Cytheridea insolita* sp. n. Cretaceous Texas and note on hinge structure, ALEXANDER & ALEXANDER Amer. Midl. Nat. 14 p. 282 figs.—*C. ruida*, *C. ruginosa* p. 224, *C. fornicata*, *C. multipunctata* p. 226 spp. n. Eocene Texas figs., ALEXANDER J. Paleont. 8.

†*Cytheromorpha scrobiculata* sp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 223 fig.

†*Cytheropteron bohemicum* pp. 374, 377, *C. acu* pp. 375, 378 spp. n. Cretaceous Czecho-Slovakia figs., ŠULC Věst. Sta. geol. ústav. Českosl. Praha 7.—*C. (C.) midwayensis*, *C. (C.) aligerum* spp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 230 figs.

Cytherura inconspicua p. 13, *C. nasuta* p. 14 spp. n. figs. Kiel Bay, KLIE Zool. Anz. 108.

†*Dilobella texana* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 273 figs.

†*Dizygopleura euglyphea* p. 210, *D. oblonga* p. 211 spp. n. figs. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4.

†*Ellipsella* gen. n. (Cytheridae) for genotype *E. obliqua* p. 390, also *E. gilei* p. 391 spp. n. figs. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13.

Eucypris fuscata gigantea var. n. p. 451, *E. hystrix* p. 452, *E. rava* p. 454 spp. n. all figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

†*Eucythere midwayensis* sp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 227 figs.

†*Euglyphella* gen. n. for type *Strepula sigmoidalis* Jones p. 220 figs., *E. s. primitiva* var. n. p. 221 figs. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4.

†*Euprimitia* sp. ind. Silurian Greenland descr. fig. p. 37, POULSEN 371.

Gigantocypris structure of brain p. 102 figs., HANSTRÖM 202.

†*Girtyites* gen. n. (Kirkbyidae) for genotype *G. spinosus* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 261 fig.

†*Glyptopleura triseria* sp. n. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13 p. 403 figs.

†*Hallatia* gen. n. (Primitiidae) for genotype *H. healeyensis* sp. n. p. 335, also *H. paracylindrica* sp. n. p. 336 figs. Ordovician Iowa, KAY J. Paleont. 8.

†*Halliella linepunctata* p. 333, *H. magnapuncta* p. 334 Ordovician Iowa figs., KAY J. Paleont. 8.

†*Healdia cincta*, *H. quadrispinosa* p. 177, *H. cuneata*, *H. alba*, *H. compressa* p. 178, *H. absentia*, *H. miranda* p. 179 spp. n. figs. Carboniferous Texas, CORYELL & BILLINGS Amer. Midl. Nat. 13.—*H. colonyi* p. 266, *H. masoni* p. 267 spp. n. figs. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14.—*H. tulsensis*, *H. arcuata* spp. n. figs. Pennsylvanian Oklahoma, CORYELL & OSORIO Amer. Midl. Nat. 13.

Herpetocypris pectinata p. 81, *H. panningi* p. 83 spp. n. figs. Chile, BREHM Zool. Anz. 108.

†*Hollinella bulbosa* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 251 figs.—*H. nowataensis*, *H. inflata* spp. n. Pennsylvanian Oklahoma, CORYELL & OSORIO Amer. Midl. Nat. 13 p. 29 figs.

†*Hollites* gen. n. for *H. papillosus* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 253 figs.

†*Jonesina grahamensis* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 272 figs.—*J. alta*, *J. uncialis* p. 399, *J. papillosa* p. 400, *J. primitioides* p. 401 spp. n., *J. papillosa inflata* var. n. p. 401 all figs. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13.—*J. minnekah-tensis* p. 399, *J. pahasapensis* p. 401 spp. n. figs. Cretaceous S. Dakota, ROTH J. Paleont. 7.

†*Kirkbyella* gen. n. (Kirkbyidae) for genotype *K. typa* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 262 figs.—*K. verticalis*, *K. obliqua* spp. n. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. no. 748 p. 2 figs.

†*Knoxina* gen. n. (Kloedenellidae) for genotype *K. lecta* p. 283, also *K. elliptica* p. 284, *K. incurvata* p. 285, *K. indistincta* all spp. n. all figs. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13.

†*Krithe perattica* sp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 229 figs.

Limnocythere review of the spp., *L. ochridense* Lake Ochrida Yugoslavia p. 539, *L. aethiopica* Transvaal p. 540, *L. neotropica* Argentina p. 542 spp. n., KLIE Arch. Naturgesch. 3 p. 534.—*L. inopinata* and other spp. nr. Bremen photos, KLIE 264.—*L. ornata* sp. n. Ohio, FURTOS Ohio State Univ. Bull. 5 p. 423 figs.

†*Loxoconcha perdecora*, *L. corrugata*, *L. nuda*, *L. prava* spp. n. Eocene Texas figs., ALEXANDER J. Paleont. 8.

†*Macrocypris siliqua* sp. n. Cretaceous Limburg, v. VEEN Nat. Maandbl. 23 p. 88 figs.

†*Monoceratina lewisi* sp. n. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13 p. 398 figs.—*M. parallela* p. 61, *M. semiornata*, *M. nitida* p. 63, *M. jugosa*, *M. trinodosa* p. 64 spp. n. Cretaceous Texas figs., ALEXANDER J. Paleont. 8.—*M. speciosa*, *M. rossae* spp. n. Eocene Texas figs., ALEXANDER J. Paleont. 8.

†*Moorea elongata* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 258 fig.

†*Moorites* gen. n. for type *M. hewetti* sp. n. p. 182 figs., also *M. truncatus* sp. n. p. 183 figs. Carboniferous Texas, CORYELL & BILLINGS Amer. Midl. Nat. 13.—*M. parallela* sp. n. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13 p. 257 figs.

†*Octonaria nucleolata* sp. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 219 fig.

†*Orthonotacythere cristata* p. 65, *O. scrobiculata*, *O. polita* p. 66 spp. n. Cretaceous Texas, ALEXANDER J. Paleont. 8.

†*Paracypris limburgensis* sp. n. Cretaceous Limburg, v. VEEN Nat. Maandbl. 23 p. 89 figs.—*P. simplicus* p. 403, *P. acuminatus* p. 404 spp. n. figs. Cretaceous, S. Dakota, ROTH J. Paleont. 7.

†*Parahealdia* gen. n. (Primitiidae) for type *P. pecorella* p. 3, also *P. ovata* p. 4 spp. n. figs. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. no. 748.

†*Paraparchites thomasi* p. 248, *P. palopintoensis* p. 248, *P. brazoensis* p. 249, *P. oblongus* p. 250 spp. n. figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13.—*P. humerosus kansasensis* var. n. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13 p. 396 figs.—*P. oviformis* sp. n. Permian Texas, CORYELL & ROGATZ Amer. Midl. Nat. 13 p. 387 figs.

Philomedes interpunctata structure, habits, pelagic phase, breeding p. 137, PAGE 143, 144.

Physocypris kliei sp. n. Silesia, SCHÄFER Bul. Soc. Sti. Cluj 7 p. 559 figs.—*P. globula* p. 468, *P. inflata* p. 470 spp. n. figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

Potamocypris elegantula p. 433, *P. comosa* spp. n. p. 435, *P. smaragdina compressa* var. n. p. 435 all figs. Ohio, FURTOS Ohio State Univ. Bull. 5.

†*Primitia* sp. descr. fig. Ordov. Chosen p. 493, KOBAYASHI 268.

†*Pseudocypridina* gen. n. (Cypridiniidae) for *P. piedmonti* sp. n. Cretaceous, S. Dakota, ROTH J. Paleont. 7.

†*Punctaparchites* gen. n. (Aparchitidae) for *Cytheropsis rugosus* Jones p. 331, *P. ovatus* sp. n. p. 332 figs. Ordovician Ontario, KAY J. Paleont. 8.

†*Raymondatia* gen. n. (Beyrichiidae) for genotype *R. goniglypta* sp. n. Ordovician Iowa, KAY J. Paleont. 8 p. 342 figs.

†*Sansabelloides* gen. n. (Kloedenelliidae) for genotype *Jonesina texana* Warthin p. 401, also *S. texana*, *S. edmistonii* p. 402 figs. spp. n. Carboniferous Okla. and Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13.

†*Silenites* gen. n. (Bairdiidae) for *S. silenus* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 265 figs.

Stenocypria longicomosa sp. n. Ohio, FURTOS Ohio State Univ. Bull. 5 p. 441 figs.

Strandesia mucronata note fig. p. 78, BREHM 65.

†*Sulcella* gen. n. p. 274 for type *S. sulcata* sp. n., also *S. warthini* sp. n. p. 275 figs. Carboniferous Texas, CORYELL & SAMPLE Amer. Midl. Nat. 13

†*Tetradella cicatricosa* sp. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 209 figs.—*T. ellipsilira* nom. n., *T. ulrichi* nom. n., KAY J. Paleont. 8 p. 339 figs.

†*Thlipsurella putea* sp. n. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. 748 p. 8 fig.—*T. ehlersi*, *T. swartzii* spp. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 216 figs.

†*Thomasatia* gen. n. (Zygobolbidae) for genotype *T. falcicosta* sp. n. Ordovician Ontario, KAY J. Paleont. 8 p. 337 figs.

†*Ulrichia circa* p. 6, *U. reticulata* p. 7 spp. n. figs. Devonian Oklahoma, CORYELL & CUSKLEY Amer. Mus. Nov. no. 748.—*U. minuta* sp. n. Carboniferous Kansas, HARRIS & LALICKER Amer. Midl. Nat. 13 p. 403 figs.

†*Waylandella spinosa* p. 175, *W. fornicata*, *W. waylandica* p. 176 spp. n. figs. Carboniferous Texas, CORYELL & BILLINGS Amer. Midl. Nat. 13.—*W. cuyleri* sp. n. Carboniferous Texas, CORYELL & BOOTH Amer. Midl. Nat. 14 p. 268 figs.—*W. mcalesterensis* sp. n. Carboniferous Oklahoma, WILSON J. Paleont. 7 p. 421 figs.

†*Wellaria aftonensis* sp. n. Devonian Michigan, WARTHIN Contr. Mus. Pal. Univ. Mich. 4 p. 208 fig.

†*Whipplella* gen. n. (Aparchitidae) p. 343 for type *W. cuneiformis* sp. n. p. 344, also *W. depressa*, *W. deltoidea* p. 345, *W. magnitata* p. 346, *W. ninevehensis*, *W. parva* p. 347, *W. ovata* p. 348 spp. n. all figs. Permian Pennsylvania and W. Virginia, HOLLAND Ann. Carnegie Mus. 22.

†*Xestoleberis truncata* sp. n. Eocene Texas, ALEXANDER J. Paleont. 8 p. 232 fig.

†*Youngiella puncta* p. 416, *Y. spicifera*, *Y. knighti* p. 417 spp. n. figs. Carboniferous Oklahoma, WILSON J. Paleont. 7.

CIRRIPEDIA.

A review with identifications of Cirripeds described by Lamarck, LAMY & ANDRÉ 285.

Types of shell formation in Balanids, v. KOLOSARY 272.

Spermatogenesis and the spermatozoa in Cirripeds, SÄHLEANU 399.

Faunal Lists.—Japanese Seas, HIRO 210; Malay Archipelago, NILSSON-CANTELL 339.

THORACICA.

Alcippe lampas embryology and larval development, KÜHNERT 281.

Alepa pacifica note p. 39, NILSSON-CANTELL 339.

Balanus growth in relation to external conditions, MOORE 331.—*B. balanus* growth problems, MOORE 332.—*B. balanoides* growth observations, FISCHER-PIETTE 153; Ecologic reactions with *Mytilus* etc. nr. St. Malo, FISCHER-PIETTE 155.—*B. amphitrite* distr. English Channel, FISCHER 151.—*B. crenatus* distr. and habitat, FISCHER-PIETTE 154.—*B. improvisus* life history and growth on Dutch coasts, v. BREEMEN 62.—*B. krakatauensis* sp. n. off Krakatau, E. Indies p. 53 figs., notes figs. etc. on other E. Indian spp., NILSSON-CANTELL Zool. Meded. 17.—*B. concavus excentricus* commensal with *Dendraster* (Urchin) on Californian coast, GILTAY 178.

Chthamalus moro addt. descr. figs. p. 50, NILSSON-CANTELL 339.

†*Coronula* in late Tertiary beds Formosa figs., HAYASAKA 206.

Lepas fascicularis noticed on N. Cornish coast, ORTON & RAWLINSON 350.

Ocotasmis warwicki; *O. nierstraszi*, *O. angulata* descr. discussion figs. p. 40, NILSSON-CANTELL 339.

Pollicipes cornucopiae elastic tissue of the peduncle, GARRAULT 169.

Pyrgoma orbicellae sp. n. in coral (*Orbicella*) Japanese seas, HIRO Proc. Imp. Acad. Tokyo 10 p. 267 figs.

†*Pyrgoma anglicum* in Pleistocene of Japan, SAKAKURA 401.

Scalpellum baliense sp. n. off Bali, E. Indies p. 35 fig., *S. sociabile* descr. fig. ♂ and notes on other Malayan spp., NILSSON-CANTELL Zool. Meded. 17.

Verruca strömia distr. and habitat, FISCHER-PIETTE 154.

†*Verruca capsula* descr. Neogene beds Fiji Is. figs., WITHERS 491.

ASCOTHORACICA.

Baccalaureus maldivensis sp. n. in *Palythoa* from Maldives, structure etc., PYEFINCH Quart. J. Micros. Sci. 77 p. 223 figs.

RHIZOCEPHALA.

Drepanorchis strigulosa on *Pleistacantha* Japanese seas p. 232, *D. papillosa* on *Charybdis* Philippine seas, *D. tenuicutis* on *Aepinus* W. Indian Ocean p. 234 spp. n. all figs., BOSCHMA Tijdschr. ned. dierk. Ver. 3.

Heterosaccus distortus on *Schizophrys* Philippine seas p. 235, *H. californicus* on *Pugettia* off California p. 236 spp. n. all figs., BOSCHMA Tijdschr. ned. dierk. Ver. 3.

Ligella gracilis a nomen nudum = *Chlorogaster gracilis*, historical note, BOSCHMA 58.

Loxothylacus texanus on *Callinectes* off Texas p. 237, *L. sclerothrix* on *Actaea* W. Indian Ocean p. 238, *L. bicorniger* on *Portunus*, Bahama seas p. 240 spp. n. all figs., BOSCHMA Tijdschr. ned. dierk. Ver. 3.

Peltogaster paguri and *Athelges paguri* simultaneously infesting *Eupagurus*, PÉREZ 362.

Sacculina lata on *Charybdis* Japan seas p. 219, *S. longipila* on *Micropanope* West Indies p. 220, *S. calva* on *Menae-thius* W. Indian Ocean p. 221, *S. rathbuni* on *Arachnopsis* off Florida p. 222, *S. pulchella* on *Huenia* off Seychelles p. 223, *S. anomala* on *Thalamita* W. Indian Ocean p. 224, *S. leptothrix* on *Xenocarcinus* off Philippines, *S. vieta* on *Actaea* W. Indian Ocean p. 225, *S. reniformis* on *Podochela* off Florida, *S. senta* on *Hemigrapsus* Japan seas p. 227, *S. schmitti* on *Anomalothir* G. of Mexico p. 229, *S. gibba* on *Eriocheir* China seas, *S. curvata* on *Sesarma* off Philippines p. 230, *S. laevis* Japan seas p. 231 all spp. n. all figs., BOSCHMA Tijdschr. ned. dierk. Ver. 3.—*S. punctata* sp. n. Japan seas, BOSCHMA Zool. Meded. Leiden 17 p. 286 figs.—*S. gordonii* sp. n. on *Atergatis* off Singapore, BOSCHMA Bull. Raffles Mus. no. 8 p. 36 figs.

X. ARACHNIDA

TO WHICH ARE ADDED

ARTHROPOD GROUPS

OTHER THAN

INSECTA AND CRUSTACEA.

[GIGANTOSTRACA (XIPHOSURA, SYNXIPHOSURA, EURYPTERIDA, TRILOBITA), PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA, AND PROTOTRACHEATA.]

ARRANGED BY

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CONTENTS.

| | PAGE |
|--|------|
| I. TITLES (All groups) | 2 |
| II. SUBJECT-INDEX :— | |
| Gigantostraca | 21 |
| Arachnida (incl. Tardigrada, Pantopoda and Pentastomida) ... | 21 |
| Myriopoda | 26 |
| Prototracheata | 27 |
| III. SYSTEMATIC INDEX :— | |
| Gigantostraca | 27 |
| Pantopoda | 30 |
| Arachnida (incl. Tardigrada and Pentastomida) | 31 |
| Myriopoda | 47 |
| Prototracheata | 51 |

I.—TITLES. (All Groups.)

- 1.—**Absolon, K. & Kratochvil, J.** Über höhlenbewohnende Arachniden. Cas. Morav. Mus. Brně Vols. 28-29 1933 pp. 595-600 5 text-figs.
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- 402.—Verhoeff, K. W. Arthropoden aus südostalpinen Höhlen gesammelt von Karl Strasztes. Triest. Mitt. Höhlen- u. Karstf. Berlin Jahrg. 1933 No. 4 pp. 1–21 30 figs.
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- 407.—Viets, K. Zur Kenntnis der Mikrofauna einiger Quellen der Hinsbeckerhöhen bei Krefeld. Natur am Niederrhein Krefeld Jahrg. 5 Heft 2 1929 pp. 37–45 10 text-figs.
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- 410.—Viets, K. Sechste Mitteilung über Wassermilben aus unterirdischen Gewässern. Zool. Anz. Leipzig Bd. 105 Heft 11–12 1934 pp. 273–281 9 text-figs.
- 411.—Viets, K. Siebente Mitteilung über Wassermilben aus unterirdischen Gewässern. Zool. Anz. Leipzig Bd. 106 Heft 5–6 1934 pp. 118–124 12 text-figs.
- 412.—Vigueras, J. P. On the Ticks of Cuba, with description of a new species *Amblyomma torrei* from *Cyclura macleayi* Gray. Psyche Boston Vol. 41 1934 pp. 13–18.
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II.—SUBJECT INDEX.

The number in Clarendon indicates the full reference in the list of Titles.

GIGANTOSTRACA.

General Works.—STÖRMER, 369.

Phylogeny and Classification.—STÖRMER, 369; Trilob., KAUFMANN, 180.

Convergent Evolution.—Trilob., RICHTER, R. & E. 294.

Structure.—External structure, Trilob., HANSTRÖM, 132; Sense organs, Trilob., HANSTRÖM, 132; Histology, alimentary canal, Xiphos., SCHLOTKE, 320.

Physiology.—Xiphos., CHAO, 67.

Habitats.—Eurypter., STÖRMER, 369.

Miscellaneous Habits.—Moulting, Eurypter., STÖRMER, 369.

Teratology.—Xiphos., MEER MOHR, 233.

DISTRIBUTION AND FAUNAS.

Cambrian.—Bornholm Island (Denmark), Trilob., HOWELL & POULSEN, 151; India, Trilob., KOBAYASHI, 193; Korea, Trilob., SAITO, 313; Sardinia, Trilob., CHECCHIA-RESPOLI, 69; Sweden, Trilob., HADDING, 129; Wisconsin, Trilob., WANENMACHER, TWENHOFEL & RAASCH, 420.

Ordovician.—Bohemia, Trilob., KLOUCEK, 192; Czechoslovakia, Trilob., RUZICKA, 311; Korea, Trilob., KOBAYASHI, 194, 195; Sweden, Trilob., HADDING, 129; United States, Eurypter., RUEDEMANN, 310.

Silurian.—Greenland, Trilob., POULSEN, 282; Norway, Eurypt., Xiphos., STÖRMER, 369; Sweden, Trilob., HADDING, 129; United States, Trilob., BILLINGS & CLEAVES, 38; MASON, 226.

Devonian.—England, Belgium, France, Germany, Trilob., R. & E. RICHTER, 293; France, Trilob., PÉNEAU, 275; Eurypter., DEHÉ, 85; Morocco,

Trilob., R. & E. RICHTER, 293; United States, Eurypter., KJELLESVIG, 189, 190; WILLARD, 428.

ARACHNIDA

(incl. Tardigrada, Pantopoda and Pentastomida).

GENERAL AND HISTORICAL.

General Works.—Solif., Palpigr., ROEWER, 301; Acar., THOR, 383; Scorp., WERNER, 422, 423; Solif., ROEWER, 300.

Historical.—Ixod., SHARIF, 348.

Nomenclature.—Aran., STRAND, 371; Acar., VITZTHUM, 415.

Errata.—Pseudoscorp., REDIKORZEV, 290.

Phylogeny and Classification.—Aran., KANEKO, 176; Acar., EWING, 104; VITZTHUM, 416; Ixod., SHARIF, 348; Pseudoscorp., KISHIDA, 188.

Methods.—Aran., BONNET, 46; KELLER, 181; Acar., JACOT, 170; collecting Spiders, DENIS, 92; Rearing Ticks, REES, 291.

Experimental.—Acari and control of Lucerne flea, CURRIE, 80; alternative hosts and Tick population, MACLEOD, 222; antiserum, Aran., BECKER & D'AMOUR, 23; crossing two different species of Spiders, BONNET, 48; immunity from Scorpion venom after injection of bee venom, SERGENT, E. & SERGENT, A., 347; serological experiment and digestion, Ixod., ROESSLER, 299; transmission of disease by Ticks, BRUMPT, 56; MATHIS, DURIEUX & ADVIER, 231; transmission of anaplasmosis, Ixod., REES, 291; transmission of Trypanosomes by Ticks, DUNN, 96.

Economics; Venoms.—Antiserum, Aran., BECKER & D'AMOUR, 23; Aran., DEASIS, 84; PINKUS, 279; RONCHETTI, 307; Scorp., Aran., BAERG, 19; BRISTOWE, 55; Scorp., DROU-AQUET, 93; NORCROSS, 261; Scorp.,

Solif., Aran., PASCAL, 271; Scorp., SERGENT, E. & SERGENT, A., 347; WERNER, 423.

Economics; Medical.—Aran., PINKUS, 279; Acari and disease, AMARAL & MONTEIRO, 2; PASCAL, 271; Intestinal acariasis, HINMAN & KAMPMEIER, 144; Mites in human intestine, KAMPMEIER & HINMAN, 175; Ixod. and disease, BEDFORD & GRAF, 25; COMBIESCO, 73; LEWIS, 214; MATHIS, DURIEUX & ADVIER, 231; TEODORO, 379; Relapsing fever, specificity of vector for *Spirochaeta*, Ixod., KEMP, MOUR-SUND & WRIGHT, 182; Spotted fever, Ixod., PLIPPER & DAU, 278; Relapsing fever, KEMP, MOUSUND & WRIGHT, 183, 184.

Economics; Veterinary.—MÖNNIG, 250; Acar., HALL, PRICE & WRIGHT, 130; WALKER, 419; Ixod., BEDFORD & GRAF, 25; LEWIS, 214; ROBERTS, 296; Anaplasmosis, Ixod., REES, 291; TEODORO, 379; Cattle fever, Ixod., ELLBERGER & CHAPIN, 100; Pentast., ORTLEPP, 268; Follicular mange in dogs, SEN, 345; Canine piroplasmosis, ANONYMOUS, 12; Dog as reservoir of virus, COMBIESCO, 73; Parasites of pig, ROBERTS, 297; Acari and poultry, HUDSON, 152; Rabbit diseases and parasites, SCHWARTZ, 343; Sheep diseases, Ixod., DAUBNEY & HUDSON, 81.

Economics; Miscellaneous.—Acari and plant disease, COTTIER, 76; FAJARDO & BELLOSILLO, 106; FONSECA, 109; HARDOUIN, 133, 134; HERRICK, 138; JACOT, 164, 165; JARY, 171; LISTO, 215; MASSEE, 227, 229; MUNGER, 256; QUAINANCE & SIEGLER, 285; STARKE, 364; Control of Red Spider on Cotton, MCGREGOR, 218; Control of Strawberry Tarsonemid Mite, MASSEE, 228; Mite as control of Lucerne flea, NEWMAN, 260; Acarias store pests, tobacco, ANDRÉ, 3 (HARDY, 135); Control of Mites in cheese store, CRANFIELD, 77; Acari and bee disease, MORGENTHALER, 254; Control of snake mite, SCHROEDER, 322; Acari infesting house, ANDRÉ, 7; Acari on mushrooms, AUSTIN & JARY, 17; Acari predators on eggs of noxious Insects, ANDRÉ, 6; Predacious mite, possible control of red scale, EBELING, 98

Parasitology.—Arachnids parasitic on other animals, Ixod., SCHULZE, 336; COOLEY, 74; FONSECA, 110; MCINTOSH, 220; SCHULZE & SCHLOTTKE, 335; VIGUERAS, 412, 413; Ticks on birds, SCHULZE, 334; Ticks on birds and mammals, THOMPSON, 382; Ticks on Lizard, JELLISON, 172; Giant Ticks of Rhinoceroses, BEQUAERT, 27; Ticks on Tapir, DUNN, 97; Fixation of male Ticks, FONSECA, 111; Acar., ANDRÉ, 4; RADFORD, 286; Acari on bees, MORGENTHALER, 254; ÖRÖSI-PÁL, 267; Acari on Diptera, COLLART, 72; Acari on dog, HALL, PRICE & WRIGHT, 130; Acari on Sea lions, FINNEGAN, 108; Acari on small mammals, HORA, 149; Acari on pigs, ROBERTS, 297; Acari on rabbits, SCHWARTZ, 343; Acari on rat, SKID-MORE, 353; Acari on snakes, FONSECA, 112; SCHROEDER, 322; Hydrach in snails, CHANDLER, 66; Acari on Man, HINMAN & KAMPMEIER, 144; KAMPMEIER & HINMAN, 175; PAVLOVSKIJ & STEIN, 272; Pentast. on pythons, HILL, 141; Hydrach., MASUDA, 230. Hyperparasitism of Acari, VITZTHUM, 416; Pentast., HETT, 139. Other animals parasitic on Arachnids, Hymenoptera on Ixod., BISHOPP, 40; GAHAN, 113; Insect on Aran., MEER MOHR, 235; VELLARD, 399.

STRUCTURE.

General.—Anthracomarti, Ixod., SCHULZE, 338; Palpigr., ROEWER, 301; Scorp., WERNER, 422, 423; Tardig., Pentast., LAMEERE, 208; Aran., SHERIFFS, 351; Acar., HOMANN, 147.

External Anatomy.—Sternum, Aran., DENIS, 90; Acar., GRANDJEAN, 125, 126.

Nervous System and Sense Organs.—Aran., BLUMENTHAL, 42; DUMITRESCO & DORNESCO, 95; HILTON, 143; Eyes, Aran., MEER MOHR, 236; "Rhagidia" organ, Acar., THOR, 385; WILLMANN, 430.

Respiratory System.—Acar., GRANDJEAN, 124, 127.

Alimentary System.—Opil., KÄSTNER, 178; sucking apparatus, Ixod., SEN, 346.

Reproductive System.—Accessory, copulation organs, Aran., HARM, 136.

Cytology and Histology.—Aran., DUMITRESCO & DORNESCO, 95; Ixod., ROESSLER, 299; Pantop., DAWSON, 83; alimentary canal, Aran., SCHLOTTEKE, 320.

Miscellaneous.—Metamerization and Chaetology, Acar., GRANDJEAN, 128; Chaetotaxy, Pseudoscorp., VACHON, 396; Hairs, Aran., THALER, 380; Head region, Aran., KELLER, 181; mouth parts, Acar., ANDRÉ, 8; "Penthaleus-Organ," Acar., THOR, 388.

PHYSIOLOGY AND BIOCHEMISTRY.

Miscellaneous.—Function of accessory copulatory organs, Aran., HARM, 136; Tropisms, Aran., SAVORY, 316, 317; Vision, Aran., MEER MOHR, 236; Vision and mimicry, Aran., STEINIGER, 366; Digestion, Ixod., ROESSLER, 299; Muscular action, Scorp., RILJANT, 295; Respiration, Scorp., ZOOND, 434; Digestion, Pseudoscorp., VACHON, 393; Heliotropism, Pseudoscorp., KLEIN, 191.

Biochemistry.—Pantop., DAWSON, 83.

DEVELOPMENT.

General.—Palpigr., ROEWER, 301; Pseudoscorp., VACHON, 397; Scorp., WERNER, 423.

Life History and Larval Development.—Aran., BONNET, 47; Acar., COTTIER, 76; MONTEROSSO, 251, 252; MUNGER, 256; ÖRÖSI-PÁL, 267; SCHROEDER, 322; Hydrach., MASUDA, 230; Pseudoscorp., VACHON, 395, 396.

Experimental.—Influence of physical factors in relation to development, Ixod., MACLEOD, 223.

Parthenogenesis.—Acar., MONTEROSSO, 251, 252.

Spermatogenesis.—Pedip., MILLOT & TUZET, 247.

Miscellaneous.—Fourth pair of legs, Ixod., PIEKARSKI, 277.

ETHOLOGY.

General Habits.—Aran., BERLAND, 30; BHATTACHARYA, 36; BOEDIJN, 44; BONNET, 47; BRAUN, 53; CAMBOUÉ, 58; GALLARD, 114; HASE, 137; MEER MOHR, 235; MILZER, 248; MULLEM, 255; SHERRIFFS, 352; Acar., HORA, 148; VITZTHUM, 416; Opil., KOLOSVARY, 197; Scorp., WERNER, 423.

Habitat.—Acar., JACOT, 164; Ixod., LEWIS, 214. Beside thermal spring, Aran., Acar., In thermal spring, Hydrach., STROUHAL, 373; Brackish water ponds, Aran., PEARSE, 273; Cavernicolous fauna, Acar., WILLMANN, 429; Pseudoscorp., BEIER, 26; Aran., Opil., Pseudoscorp., Acar., GIOVANNOLI, 123; Aran., IVES, 157; KOLOSVARY, 200; Opil., SCHÜLLER, 330; Aran., Opil., Pseudoscorp., Acar., SZALAY, 374; Floor of wood, Acar., VOLZ, 418; Intertidal area, Acar., JACOT, 167; Lichens, Acar., JACOT, 161; Littoral region of lake, Hydrach., MOON, 253; Marine Acar., ANDRÉ, 9; Moor., Aran., Acar., SCHUBERT, 329; Mountain springs, Tardig., GEBHARDT, 116; Microfaunal communities of soil, Acar., JØRGENSEN, 173; Nepenthes urns, Aran., Acar., MEER MOHR, 235; Rice-ship (trading from Burma to West Indies), Aran., Pseudoscorp., MYERS, 257; subterranean water, Hydrach., HALACAR, VIETS, 409; Hydrach., VIETS, 410, 411; Tardig., SCHLENKER, 319; Tropical plant-waters, Acar., Tardig., THIENEMANN, 381; Tobacconist shop, Acar., ANDRÉ, 3 (HARDY, 135); Xerotherm fauna, Scorp., Aran., KUNTZE, 207; Regions of perpetual snow, Opil., STEINBRÖK, 365; Acari with bees, HOMANN, 147; Acari in nests of small mammals, HORA, 149; Ixod., BODENHEIMER, 43.

Sexual Relations.—Aran., R. V. CHAMBERLIN & IVIE, 65; PETRUNKEVITCH, 276; Opil., KOLOSVARY, 199.

Mimicry.—Accommodating vision, Aran., STEINIGER, 366.

Miscellaneous Habits.—Aran., HULL, 155; LESNE, 213; POULTON, 283; STEINIGER, 367; Cocoon-making, Aran., BAERG, 20; fishing habits, Aran., MEEHEAN, 232; food of Aran., EXLINE & HATCH, 105; gregarious Spiders,

CAMBOUÉ, 59; lizard-eating spiders, BHATTACHARYA, 37; manufacture of web, Aran., HOLZAPFEL, 146; moulting, Aran., PETRUNKEVITCH, 276; oviposition, Aran., KISHIDA, 187; Spider fights, OKAJUNA, 264; fish-hunting spiders, BERLAND & PELLEGRIN, 34; stridulation, Aran., CHOPARD, 70; Spiders preyed upon by wasp, DELLOW, 86; Web-building, Aran., ROBERTS, 298; BALOGH, 21; Acari, predators on Insect's eggs, ANDRÉ, 6; Acari, predator on Lucerne flea, CURRIE, 80; Predacious mite, EBELING, 98; method of fixation of male ticks, FONSECA, 111; method of nutrition, Pseudoscorp., VACHON, 393; cannibalism and predaceous habits, Pseudoscorp., VACHON, 394.

VARIATION AND AETIOLOGY.

Miscellaneous.—Dimorphism; eggs and proportion of the sexes, Aran., BONNET, 49; gynandromorphism, Aran., BONNET, 45.

Teratology.—Opil., KOLOSARY, 197.

DISTRIBUTION AND FAUNAS.

General.—Problems of distribution, BERLAND, 29, 32; LEWIS, 214; Ixod., OLENEV, 265; southern continents, Aran., Scorp., WITTMANN, 431; Distributional agents, Acar., JACOT, 164.

PALAEARCTIC REGION.

British Isles.—Aran., HULL, 153; Acar., HULL, 154; HULL & FALCONER, 156; Aran., Opil., Pseudoscorp., Acar., FALCONER, 107; Aran., Opil., Pseudoscorp., Acar., SAVORY, 318; Ixod., MINNING, 249; SCHULZE, 339; Hydrach., MOON, 253; Aran., Opil., Pseudoscorp., Acar., PALMER, 270; Ramsey and Bardsey Islands, Aran., Opil., BRISTOWE, 54; Isle of Lewis, Acar., HORA, 149; Isle of Wight, Aran., BLOOM, 41.

Europe.—Austria, Aran., WERNER, 426; Opil., SCHÜLLER, 330; Pseudoscorp., BEIER, 26; Banat region, Aran., KOLOSARY, 201; Belgium, Acar., ANDRÉ, 7; Brioni Island, Ixod., SCHULZE & SCHLOTTKE, 342; Bulgaria, Acar., STORKÁN, 368; Ixod., SCHULZE, 340; Czechoslovakia, Tardig.,

BARTOS, 22; Aran., KOLOSARY, 201, 202; KRATOCHVIL, 205; Denmark, Ixod., SCHULZE, 336; France, Aran., ANONYMOUS, 11; DENIS, 87, 88, 89, 91; Acar., ANDRÉ 3 (HARDY, 135); HARDOUIN, 133; Scorp., DROUMAGUET, 93; Pseudoscorp., BEIER, 26; Germany, Aran., Acar., SCHUBERT, 329; STROUHAL, 373; Aran., Opil., Pseudoscorp., ROEWER, 304; Acar., SCHULZ, 331; VITZTHUM, 417; Ixod., SCHULZE, 332, 334, 335, 340; Hydrach., KOCH, 196; SELIGO, 344; VIETS, 407; Hydrach., Halacar., VIETS, 406; Pentast., SCHULZE, 333; Tardig., RAHM, 287; Greece, Aran., WIEHLE, 427; Greece and adjacent islands, Aran., BRISTOWE, 55; Holland, Hydrach., BESSELIING, 35; Hungary, Aran., KOLOSARY, 198, 200, 201; Aran., Opil., Pseudoscorp., Acar., GEBHARDT, 115; Aran., Opil., Pseudoscorp., Acar., SZALAY, 374, 375; Tardig., GEBHARDT, 116; Italy, Acar., THOR, 384; WILLMANN, 429; Opil., TROSSARELLI, 390; Pseudoscorp., BEIER, 26; Latvia, Pseudoscorp., TUMŠS, 391; Macedonia, Solif., ROEWER, 300; Norway, Acar., THOR, 384, 385, 387; Poland, Ixod., SCHULZE, 340; Romania, Aran., Opil., ROSCA, 308; Aran., Opil., ROSCA, 309; Russia, Aran., CHARITONOV, 68; Ixod., OLENEV, 266; SCHULZE & SCHLOTTKE, 342; Hydrach., SOKOLOV, 355; Spain, Ixod., SCHULZE & SCHLOTTKE, 342; Yugoslavia, Hydrach., Halacar., VIETS, 409; Hydrach., VIETS, 410, 411.

North Africa.—Ixod., COLAS-BELCOUR, 71; SCHULZE & SCHLOTTKE, 342; Solif., ROEWER, 300; Scorp., WERNER, 425.

Asia.—Asia Minor, Aran., WIEHLE, 427; Solif., ROEWER, 300; Ixod., MINNING, 249; SCHULZE & SCHLOTTKE, 342; Beluchistan, Solif., ROEWER, 300; China, Aran., SHERIFFS, 352; Acar., JACOT, 161; Aran., NAKAJIMA, 259; Ixod., MINNING, 249; Formosa, Ixod., MINNING, 249; SCHULZE, 337, 339; Georgia, Aran., KAUCHTSCHISCHWILI, 179; Japan, Aran., KANEKO, 177; Ixod., KISHIDA, 185; MINNING, 249; Hydrach., UCHIDA, 392; Aran., KONO, 204; Pseudoscorp., KISHIDA, 186; Kurile Islands, Pantop., OHSHIMA, 263; Aran., Opil., SAITO, 312; Acar., THOR & UCHIDA, 389; Mongolia, Solif., ROEWER, 300; Russia, Ixod.,

OLENEV, 266; Hydrach., SOKOLOV, 354; Saghien, Aran., SAITO, 315; Siberia, Aran., ERMOLAJEV, 102; Hydrach., SOKOLOV, 356; Transcaucasia, Aran., SPASSKY, 358, 359; Transcaspian, Aran., SPASSKY, 359; Turkestan, Aran., SPASSKY, 358, 359.

Canary Islands.—Ixod., SCHULZE & SCHLOTTKE, 342.

Cyprus.—Ixod., SCHULZE & SCHLOTTKE, 342.

Greenland.—Acar., JØRGENSEN, 173, 174.

Iceland.—Aran., SHERRIFFS, 350; Acar., THOR, 386.

Spitzbergen.—Aran., JACKSON, 159.

ETHIOPIAN REGION.

West Africa.—Solif., ROEWER, 300; Ixod., SCHULZE & SCHLOTTKE, 342.

East Africa.—Ixod., LEWIS, 214; MINNING, 249; SCHULZE & SCHLOTTKE, 342; Solif., ROEWER, 300; Islands of Lake Victoria, Aran., CARPENTER, 62.

Central Africa.—Ixod., MINNING, 249; Solif., SCORP., SHAW, 349; Sahara, SCORP., PALLARY, 269.

South Africa.—Aran., SCORP., SOLIF., HEWITT, 140; SCORP., WERNER, 424; Opil., LAWRENCE, 210; Acar., THOR, 387; Hydrach., VIETS, 408; Ixod., BEDFORD, 24; BEDFORD & GRAF, 25; COOLEY, 74; MINNING, 249; Solif., ROEWER, 300; Pentast., ORTLEPP, 268.

Madagascar.—Aran., CAMBOUÉ, 59; Ixod., MINNING, 249.

Cape Verde Is.—Solif., ROEWER, 300.

INDIAN REGION.

India.—Aran., BHATTACHARYA, 36; Hydrach., LUNDBLAD, 217; Ixod., SCHULZE & SCHLOTTKE, 342; Solif., ROEWER, 300.

Ceylon.—Ixod., MINNING, 249.

Burma.—Pentast., HETT, 139.

Malaya.—Aran., REIMOSER, 292; Aran., Acar., MEER MOHR, 234; Opil., ROEWER, 303; Ixod., BEQUAERT, 27; MINNING, 249; SCHULZE, 339; Pseudoscorp., CHAMBERLIN, J. C., 63; Borneo, Opil., ROEWER, 302; Pedip., SPEIJER, 361; Dutch East Indies, Pedip., SPEIJER, 363; Java, Ixod., SCHULZE, 341; Philippine Islands, Acar., FAJARDO & BELLOSILLO, 106.

AUSTRALIAN REGION.

Australia.—Aran., KOLOSVÁRY, 203; Acar., CURRIE, 80; WOMERSLEY, 432; Ixod., MCINTOSH, 219; ROBERTS, 296; Pseudoscorp., CHAMBERLIN, J. C., 63.

New Zealand.—Aran., BERLAND, 32; Acar., COTTIER, 76; Pseudoscorp., CHAMBERLIN, J. C., 63.

New Guinea.—Aran., KOLOSVÁRY, 203; Ixod., SCHULZE, 339; Pseudoscorp., CHAMBERLIN, J. C., 63.

Tasmania.—Pseudoscorp., CHAMBERLIN, J. C., 63.

Polynesia.—Aran., BERLAND, 28, 29, 32; Pseudoscorp., CHAMBERLIN, J. C., 63; Ellice Islands, Acar., JACOT, 169; Hawaiian Islands, Acar., JACOT, 164; Aran., PEMBERTON, 274; Tahiti, Aran., BERLAND, 31; Acar., JACOT, 162; Marquesas Islands, Acar., JACOT, 163.

NEOTROPICAL REGION.

Central America and West Indies.—Aran., R. V. CHAMBERLIN & IVIE, 65; GERTSCH, 117, 118; PEARSE, 273; Acar., GRANJEAN, 124, 128; Ixod., DUNN, 97; MINNING, 249; VIGUERAS, 412, 414; Solif., ROEWER, 300.

Galapagos Island.—Solif., ROEWER, 300.

South America.—Aran., CANALS, 60; R. V. CHAMBERLIN & IVIE, 65; CROSBY, 78; MELLO-LEITÃO, 238, 242, 245; MELLO-LEITÃO & ARLÉ, 246; PIZA, 280, 281; Acar., FONSECA, 112; Ixod., MINNING, 249; PRADO, 284; Solif., ROEWER, 300; Opil., MELLO-LEITÃO, 243; SCORP., MELLO-LEITÃO, 237, 239, 240, 241, 244; VELLARD, 398.

NEARCTIC REGION.

North America.—Ixod., SCHULZE, 340.

United States.—Aran., Opil., Pseudoscorp., Acar., GIOVANNOLI, 123; Aran., BISHOP & CROSBY, 39; BRYANT, 57; R. V. CHAMBERLIN & IVIE, 65; GERTSCH, 117, 118, 119, 120; IVES, 157; MILZER, 248; ZORSCH & CROSBY, 435; Opil., DAVIS, 82; Pseudoscorp., CHAMBERLIN, 64; Solif., ROEWER, 300; Acar., JACOT, 160, 161, 166, 167, 168; MUNGER, 256; Ixod., JELLISON, 172; MCINTOSH, 220, 221; Hydrach., CHANDLER, 66.

Canada.—Aran., GERTSCH, 117, 119, 120; Acar., SKIDMORE, 353.

Alaska.—Aran., GERTSCH, 117, 119.

Newfoundland. — Aran., GERTSCH, 119.

Southampton Island. — Aran., CROSBY, 79.

THE OCEANS.

Pacific.—Pantop., GILTAY, 122; SCHMITT, 321; **Surface Japanese waters,** Pantop., OHSHIMA, 262.

FOSSIL.

Amber. — Aran., Pseudoscorp., BACHOFEN-ECHE, 18.

MYRIOPODA.

GENERAL AND HISTORICAL.

General Works—Diplop., SCHUBART, 324; Paurop., VERHOEFF, 400a.

Nomenclature.—BRADSHAW, 52.

Bibliography.—DUBOSQ, 94

Obituary—DUBOSQ, 94.

Economics; Venoms.—Chilop., BAERG, 19.

Economics; Veterinary.—Cryptotoxic forms, MÖNNIG, 250.

Economics; Miscellaneous.—Millipede injurious to plants, ROLFE, 306.

Parasitism.—Millipede parasitized by Phorid fly, MYERS, 258.

STRUCTURE.

General.—Paurop., VERHOEFF, 400a.

Nervous System and Sense Organs.—Chilop., HANSTRÖM, 131.

Reproductive System.—Diplop., WARREN, 421.

Histology.—Diplop., WARREN, 421.

PHYSIOLOGY.

Tropisms.—Heliotropism, KLEIN, 191.

DEVELOPMENT.

General.—Paurop., VERHOEFF, 400a.

Spermatogenesis.—Chilop., BOVIN, 51; Diplop., WARREN, 421.

ETHOLOGY.

General.—Paurop., VERHOEFF, 400a.

Miscellaneous Habits.—Egg-laying and nesting habits, CORNWELL, 75; Chilop., SCHUBART, 327; feeding habits, Chilop., LAWRENCE, 211; Method of walking, Chilop., HOLST, 145; Migration, Diplop., RAU, 288.

Habitat.—Cavernicolous fauna, VERHOEFF, 402; Diplop., GIOVANNOLI, 123; by thermal spring, STROUHAL, 373; Moor, SCHUBART, 329; Xerotherm fauna, Chilop., KUNTZE, 207.

VARIATION AND AETIOLOGY.

[Vacant.]

DISTRIBUTION AND FAUNAS.

General.—Southern continents, Chilop., WITTMANN, 431.

PALAEARCTIC REGION.

British Isles.—Diplop., ROLFE, 305.

Europe.—Chilop., VERHOEFF, 402; Diplop., SCHUBART, 326; Albania, Chilop., VERHOEFF, 404; Bulgaria, Diplop., SCHUBART, 323; Central Europe, VERHOEFF, 401; Cherso Island, Diplop., STRASZER, 372; Czechoslovakia, Diplop., LANG, 209; Germany, EFFENBERGER, 99; SCHUBERT, 329; STROUHAL, 373; Chilop., VERHOEFF, 404; Diplop., SCHUBART, 324; Hungary, GERHARDT, 115, 116; Italy, Chilop., ATTEMS, 16; Diplop., MANFREDI, 224; VERHOEFF, 402, 403; Latvia, Diplop., SCHUBART, 325; Macedonia, Chilop., VERHOEFF, 404.

Asia.—Chilop., VERHOEFF, 404; Afghanistan, Chilop., ATTEMS, 16; China, VERHOEFF, 400; Chilop., ATTEMS, 16; Japan, Chilop., TAKAKUWA, 376, 378; Pauprop., ESAKI, 103; Kurile Islands, TAKAKUWA, 377; Russia, Chilop., ATTEMS, 16.

Asia Minor.—Diplop., SCHUBART, 328; Palestine, Chilop., VERHOEFF, 404.

ETHIOPIAN REGION.

East Africa.—Chilop., MANFREDI, 225.

Central Africa.—Diplop., ATTEMS, 15.

South Africa.—ATTEMS, 14; Diplop., ATTEMS, 15.

INDIAN REGION.

[Vacant.]

AUSTRALIAN REGION.

Australia.—Chilop., VERHOEFF, 404.

NEOTROPICAL REGION.

Central America and West Indies.—Chilop., VERHOEFF, 404; Diplop., LOOMIS, 216.

South America.—Chilop., ATTEMS, 16; Diplop., LOOMIS, 216.

NEARCTIC REGION.

United States.—Chilop., ATTEMS, 16; VERHOEFF, 404; Diplop., GIOVANNOLI, 123; LOOMIS, 216; Pauprop., HILTON, 142.

FOSSIL.

General.—Pauprop., VERHOEFF, 400a.

PROTOTRACHEATA.

STRUCTURE.

General.—LAMEERE, 208.

ETHOLOGY.

General Habits.—ANDREWS, 10.

DISTRIBUTION AND FAUNAS.

General.—Southern continents, WITTMANN, 431.

NEOTROPICAL REGION.

Central America and West Indies.—ANDREWS, 10.

III.—SYSTEMATIC INDEX.

N.B.—The number in *Clarendon*, when not that of a Volume, refers to the list of Titles.

GIGANTOSTRACA.

TRILOBITA.

†*Agnostus* cf. *rakuroensis* Cambrian, Kashmir, p. 297 pl., KOBAYASHI 193.—†*A. chinensis* Cambrian, Korea p. 217 pl., SAITO 313.—†*A. radiatus* sp. n. p. 536 pl., *A. a* sp., *A. b* sp. p. 537 pls. Lower Ordovician Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. Geogr. Seismol. 3.

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†*Oryctocephalus orientalis* p. 230 pl., *O. kobayashii* p. 231 pl. spp. n. *O.* cf. *reynoldsi* Reed p. 232 pl. Cambrian, Korea, SAITO Japan J. Geol. Geogr. Tokyo 11.

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†*Xenostegium* p. 557, *X.* (?) *laticaudum*, *X.* (?) *subeuchides*, *X.* (?) *paradouglasensis* p. 559 pl. spp. n. *X. albertensis*, *X.* (?) sp. aff. *X. albertensis* p. 558 pl. Lower Ordovician, Korea, KOBAYASHI J. Fac. Sci. Univ. Tokyo Geol. Min. Geogr. Seismol. 3.

XIPHOSURA.

Tachypleus gigas, malformations p. 1 pl., MEER MOHR 233.

FOSSIL.

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EURYPTERIDA.

†*Carcinosomidae* fam. n. "based chiefly on the genera *Carcinosoma* and *Mixopterus*" p. 104, STØRMER Skr. Norske Vidensk.-Akad. Oslo 1933.

†*Eurypterus* (*Stylonurus* ?) *maccarthyi* sp. n. Devonian, United States p. 386, KJELLESVIG Amer. J. Sci. New Haven (5) 27.—†*E.* (*Stylonurus* ?) *maccarthyi* Devonian United States p. 29, KJELLESVIG J. Elisha Mitchell Sci. Soc. Chapel Hill 49.—†*E. hudsonicus* sp. n. Ordovician, United States p. 374 fig., RUEDEMANN Amer. J. Sci. New Haven (5) 27.

†*Eusarcus triangulatus* Ordovician, United States p. 375 fig., RUEDEMANN 310.

†*Hughmilleria patteni* sp. n. Saaremaa beds, Esthonia p. 245 pl., STØRMER SitzBer. naturf. ges. Tartu 40.—†*H.* p. 80, *H.* (?) *lata* sp. n. p. 91 pls., *H. norvegica* p. 84 pls. Silurian, Norway, STØRMER Skr. Norske Vidensk.-Akad. Oslo 1933.—†*H. prisca* p. 375 fig., *H. kilfoylei* p. 378 fig. spp. n. Ordovician, United States, RUEDEMANN Amer. J. Sci. New Haven (5) 27.

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†*Stylonurus pentagonalis* p. 96 pls., *S. ruedemanni* p. 99 pls., *S. dolichopteroides* p. 101 pls. spp. n. Silurian, Norway, STØRMER Skr. Norske Vidensk.-Akad. Oslo 1933.—†*S. shaffneri* sp. n. Devonian, United States p. 52 fig., WILLARD Amer. Midl. Nat. Notre Dame 14.

PANTOPODA.

(=Pycnogonida.)

Ammonothea (*Achelia*) *alaskensis* Kurile Islands p. 144 fig., OHSHIMA 263.

Anoplodactylus sp. p. 219 figs. plankton, Japanese waters, OHSHIMA 262.

Pallene amazana sp. n. p. 216 figs., *P. longiceps* p. 212 figs. plankton, Japanese waters, OHSIMA Annot. zool. jap. 14.

Pycnogonum rickettsi Monterey Bay p. 62 fig., *P. hancocki* Galapagos Islands p. 65 fig. spp. n., SCHMITT J. Wash. Acad. Sci. 24.—*P. stearnsi* Kurile Islands p. 147 figs., OHSIMA 263.

ARACHNIDA.

(Including Tardigrada and
Pentastomida.)

SCORPIONES.

Ananteris balzani Argentina p. 31 fig., MELLO-LEITÃO 244.

Brachio sternus, key to Argentina spp. p. 38 figs., MELLO-LEITÃO 244.

Bothriurus bonariensis araguayae subsp. n. South America p. 257, VELLARD Bull. Mus. Hist. nat. Paris 6.

Bothriurus fragilis sp. n. Brazil p. 193 figs., MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio 6.—*B. prospicius* p. 88 fig., *B. karschi*, *B. borellianus* p. 88 spp. n. *B. bonariensis* p. 65 fig., *B. asper* p. 70 figs., *B. alienicola* p. 71 figs., *B. signatus* p. 73 fig., *B. flavidus* p. 74 figs., *B. pringlosianus* p. 76 figs., *B. d'Orbigny* p. 79 figs., *B. elegans* p. 83 figs., *B. chilensis* p. 85, *B. keyserlingi* p. 90, *B. coriaceus* p. 91 fig., *B. burmeisteri* p. 92 figs., *B. dispar* p. 93 figs., *B. doello-juradoi* p. 94 figs. Argentina, MELLO-LEITÃO Oct. réun. Soc. Argent. 1934.—*B. rochai* sp. n. p. 24 fig., p. 40, *B. dispar* p. 22 fig. South America, MELLO-LEITÃO Arch. Mus. nac. Rio de J. 34.

Buthus occitanus tunetanus p. 84 fig., *B. occitanus atlantis* p. 86 fig. Morocco, WERNER 425.

Centromachetes obscurus sp. n. South America p. 16 fig., p. 40, MELLO-LEITÃO Arch. Mus. nac. Rio de J. 34.

Hadogenus troglodytes letabensis subsp. n. Transvaal p. 324 figs., WERNER Senckenbergiana Frankfurt 15,

Jophorozenus gen. n. [Bothriuridae] for type *I. exilimanus* sp. n. South America p. 23 fig., MELLO-LEITÃO Arch. Mus. nac. Rio de J. 34.—*I. exilimanus* Argentina p. 54 fig., MELLO-LEITÃO 244.

Iophorus, key to Argentine spp. p. 56, *I. exochus* p. 56 fig., *I. eugenicus* p. 59 fig. Argentina, MELLO-LEITÃO 244.

Opisthophthalmus undulatus ugabensis subsp. n. South Africa p. 408 pl., HEWITT Ann. Transv. Mus. 15.

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Rhopalurus pinto p. 11 fig., p. 38, *R. lambdophorus* p. 12 fig., p. 38 spp. n. South America key to spp. p. 14, MELLO-LEITÃO Arch. Mus. nac. Rio de J. 34.

Scorpio maurus maurus, *S. maurus legionis* Morocco p. 87 figs., WERNER 425.

Tityus neglectus p. 9 fig., p. 37, *T. mazzae* p. 18 fig., p. 39 spp. n. South America, MELLO-LEITÃO Arch. Mus. nac. Rio de J. 34.—*T. rectus* p. 18 figs., *T. indecisus* p. 20 figs. spp. n., *T. paraguayensis* p. 15 figs., *T. mazzae* p. 15 fig., *T. trivittatus* p. 22 figs., *T. bolivianus argentinus* p. 23 fig., *T. bahiensis* p. 27 fig. Argentina, MELLO-LEITÃO Oct. réun. Soc. Argent. 1934.

Urophonius granulosissimus sp. n. South America p. 13 figs., MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio 6.—*U.*, key to Argentine spp. p. 48 fig., MELLO-LEITÃO 244.

Zabius fuscus Argentina p. 8 figs., MELLO-LEITÃO 244.

PEDIPALPI.

SPEIJER 362.

Gipopeltis gen. n. for *Typopeltis harmandi* Kraepelin p. 421, SPEIJER 360.

Hypoctonus javanicus sp. n. Dutch East Indies p. 70 figs., SPEIJER Zool. Meded. Leiden 16.

Tetrabalius ambonensis Amboina p. 71 fig., *T. borneensis* Borneo p. 72 fig., *T. dammermanni* Socla Island p. 73 figs., *T. florensis* Flores p. 74 fig. spp. n., SPEIJER Zool. Meded. Leiden 16.

Thelyphonus kinabaluensis sp. n. Borneo p. 107 pl., SPEIJER Bull. Raffles Mus. Singapore 1933.—*T. kopsteini* sp. n. Noesa Laoet p. 68 figs., SPEIJER Zool. Meded. Leiden 16.

PALPIGRADI.

ROEWER 301.

ARANEAE.

BERLAND 32.

KANEKO 176.

Faunalists.—Eastern Tirol, WERNER 426; Essex, HULL 153; Lancashire and Cheshire, FALCONER 107; Port Cros Island, DENIS 91; Pulau Berhala Islands, MEER MOHR 234; Worcester-shire, SAVORY 318.

CTENIZIDAE.

Idiops damarensis sp. n. South Africa p. 410 fig., HEWITT Ann. Transv. Mus. 15.

Pachylomerides nom. n. for *Pachylomerus* Ausserer 1871 p. 273, STRAND Folia zool. hydrobiol. Riga 6.

MIGIDAE.

Kolosvárya nom. n. for *Myrtale* Simon 1891 p. 272, STRAND Folia zool. hydrobiol. Riga 6.

DIPLURIDAE.

Trechona venosa South America p. 125 figs., MELLO-LEITÃO & ARLÉ 246.

BARYCHELIDAE.

Androthelopsis gen. n. p. 401 for type *A. singularis* p. 402 figs. Brazil, MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

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Psalistopoides gen. n. p. 403 for type *P. fulvimanus* sp. n. Brazil p. 404 figs., MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

THERAPHOSIDAE.

Ischnocolella correction of *Ichnocolella* Strand 1907 p. 271, STRAND 371.

Selenocosmia (*Phlogiellus*) *subinermis* sp. n. Annam, Indo-China, GILTY Bull. Mus. Hist. nat. Belg. 10.

DYSDERIDAE.

Stalita Parastalita subgen. n. p. 598, *S. inermis* Dalmatia, *S. monospina* Hercegovina spp. n. *S. schiödtei* var. *polyspina* var. n. Dalmatia, Hercegovina p. 597 figs., ABSOLON & KRATOCHVIL Cas. Morav. Mus. Brně 28-29.

Stalitella gen. n. p. 598, *S. noseki* sp. n. Montenegro p. 599 fig., ABSOLON & KRATOCHVIL Cas. Morav. Mus. Brně 28-29.

TETRABLEMMIDAE.

Matta gen. n. p. 19 for type *hambletoni* sp. n. Brazil p. 20 pl., CROSBY Bull. Brooklyn Ent. Soc. 29.

AMAUROBIIDAE.

Titanoeca obscura p. 14 figs., *T. schineri* p. 16 figs., *T. tristis* p. 17 figs., *T. veteranica* p. 19 figs. Czechoslovakia, KRATOCHVIL Šbor. prip. Společ V. Mor. Ostrave 7.

AGELENIDAE.

Agelena barrowsi p. 23 figs., *A. texana* p. 24, *A. idahoana*, *A. aperta* p. 25 figs. spp. n. United States, GERTSCH Amer. Mus. Nov. N.Y. 726.

Cybaeus strandi sp. n. Czechoslovakia p. 43 fig., KOLOSVARY Folia zool. hydrobiol. Riga 7.

Hadites dubius p. 599 fig. Dalmatia and Hercegovina, *H. bidens* Meleda Is. p. 600 fig., ABSOLON & KRATOCHVIL Cas. Morav. Mus. Brně 28-29.

Hahnia helveola p. 333, p. 342 pl. Spitzbergen, JACKSON 159.

Tegenaria lapicidinarum sp. n. Russia p. 2 pl., SPASSKY J. N.Y. Ent. Soc. 42.

HAHNIDAE.

Antistea brunnea North America p. 17 figs., GERTSCH 119.

Bigois tatei sp. n. South America p. 13 figs., GERTSCH Amer. Mus. Nov. N.Y. 712.

Hahnia, key to spp. p. 3, *H. okefinokensis* sp. n. United States p. 8 figs., *H. cinerea* race *seminola* new race p. 8, *H. cinerea* p. 3 figs., *H. ernesti* p. 9, *H. flaviceps* p. 11 figs. North America, GERTSCH Amer. Mus. Nov. N.Y. 712.

Hahniidae, key to genera p. 2, GERTSCH 119.

Neantistea gen. n. p. 18 for type *N. agilis* (Keyserling), key to spp. p. 19, *N. gosiuta* p. 24 figs., *N. barrowsi* p. 29 figs. spp. n. United States, *N. agilis* p. 19 figs., *N. riparia* p. 25 figs., *N. riparia* race *radula* p. 28 fig. North America, GERTSCH Amer. Mus. Nov. N.Y. 712.

ZODARIIDAE.

Patiscana nom. n. for *Patiscus* Simon 1892 p. 274, STRAND Folia zool. hydrobiol. Riga 6.

Zodaron, notes on sternum p. 263 fig., DENIS 90.

LYCOSIDAE.

KRATOCHVIL 206.

Arctosa furtiva p. 8 fig., *A. absoluta* p. 9 fig. spp. n. United States, GERTSCH Amer. Mus. Nov. N.Y. 726.—*A. incerta* sp. n. Florida p. 39 figs., BRYANT Psyche Boston 41.—*A.* key to Nearctic species p. 3, *A. emertoni* Canada p. 5, *A. mokiensis* United States, *A. apora* Costa Rica p. 8, *A. mulaiki*, *A. chamberlini* United States p. 10 spp. n., GERTSCH Amer. Mus. Nov. N.Y. 693.

Lycosa abdita United States p. 3 fig., *L. minnesotensis* Canada and United States p. 4 fig., *L. mimula* p. 5 fig., *L. watsoni* p. 6 figs. United States spp. n. *L. commota*, *L. illicita* nom. n. p. 7, *L. helluo* p. 6 fig. United States, GERTSCH Amer. Mus. Nov. N.Y. 726.—*L. carrana* sp. n. Florida p. 38 fig., BRYANT Psyche Boston 41.—*L. kratochvili* Czechoslovakia, *L. pannonica* Hungary spp. n. p. 16 figs., KOLOSARY Folia zool. hydrobiol. Riga 6.—*L. chisimensis* Kurile Islands p. 129 fig., SAITO 312.

Lycosella thorelli Marquesas Islands p. 335 fig., BERLAND 29.

Pardosa andersoni Flaxman's Island, Alaska p. 16, *P. delicata* Mexico p. 20,

P. petrunkevitchi Mexico p. 21, *P. mulaiki* United States p. 22, *P. montgomeryi* United States p. 24 spp. n. *P. wyuta* nom. nov. for *Pardosa atra* Banks. 1894 nec. *Pardosa (Lycosa) atra* Giebel. p. 17, GERTSCH Amer. Mus. Nov. N.Y. 693.

Pirata gigantea sp. n. United States p. 12, GERTSCH Amer. Mus. Nov. N.Y. 693.

Porimma callipoda sp. n. Brazil p. 405 figs., MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

Schizocosa floridana sp. n. Florida p. 40 fig., BRYANT Psyche Boston 41.

Tarentula teschleri p. 15 fig., *T. reimoseri* p. 16 fig. spp. n. Czechoslovakia, KOLOSARY Folia zool. hydrobiol. Riga 6.—*T. mariae* forma *orientalis* form. n. Czechoslovakia p. 42 fig., KOLOSARY Folia zool. hydrobiol. Riga 7.

SICARIIDAE.

Loxosceles, key to Brazilian spp. p. 71 figs., *L. intermedia* sp. n. Brazil p. 73 figs., MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio 6.

DICTYNIDAE.

Charitonowia nom. n. for *Myrmecophila* Simon 1898 p. 272, STRAND Folia zool. hydrobiol. Riga 6.

Dictyna jacksoni sp. n. Delphi, Delos, Patmos, Rhodes p. 778 fig., BRISTOWE Proc. Zool. Soc. London 1934.

THERIDIIDAE.

Enoplognatha hungarica sp. n. Hungary p. 14 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

Latrodectus mactans first record from Hawaiian Islands p. 376, PEMBERTON 274.—*L. mactans* occurring in great numbers, United States p. 402, MILZER 248.

Lithyphantes gerhardti sp. n. Palestine, Smyrna, Greece p. 71 figs., WIEHLE Zool. Anz. Leipzig 106.

Nesticus, notes on genus p. 395 pl., CAPORICCO 61.

Schenkelia nom. n. for *Oeta* O. P. Cambridge 1870 p. 273, STRAND Folia zool. hydrobiol. Riga 6.

Teutana grossa var. *strandii* var. n. West Siberia p. 145, ERMOLAJEV Folia zool. hydrobiol. Riga 7.

Theridion adamsoni p. 102 figs., *T. tahitiæ* p. 103 figs., *T. societatis* p. 104 figs. spp. n. Tahiti, BERLAND Bull. Bishop Mus. Honolulu 113.—*T. araitense* Kurile Islands p. 125 fig., SAITO 312.—*T. kratochvili* sp. n. Czechoslovakia p. 14 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.—*T. nivalium* sp. n. Southern Saghalien p. 330 fig., SAITO Trans. Sapporo Nat. Hist. Soc. 13.

Tidarren gen. n. p. 4 for type *Theridion fordm* Keyserling p. 5 pl. United States, *T. mixtum* p. 9 pl. Central America, Galapagos Islands, *T. minor* United States p. 10 pls., R. V. CHAMBERLIN & IVIE Bull. Univ. Utah. 24.

PHOLCIDAE.

Artema transcaspica sp. n. Transcaspien p. 369 figs., SPASSKY Bull. Mus. Hist. nat. Paris 6.

Ceratopholcus gen. n. for type *C. maculipes* sp. n. Turkestan p. 361 figs., SPASSKY Bull. Mus. Hist. nat. Paris 6.

Holocnemus longipes sp. n. Transcaucasia p. 366 figs., SPASSKY Bull. Mus. Hist. nat. Paris 6.

LINYPHIIDAE.

Ceratinella marculi sp. n. Romania p. 222 fig., ROSCA Bul. Fac. Sti. Cernăuți 5.

Centromerus similis France p. 73 fig., DENIS 87.

Coryphoeolanus thulensis sp. n. Jameson land p. 615 pl., JACKSON Ann. Mag. Nat. Hist. 14.

Entelecara strandi sp. n. Czechoslovakia p. 14 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

Eperigone albula sp. n. United States p. 245 fig., ZORSCH & CROSBY Ent. News Philad. 45.

† *Erigone jeannei* sp. n. Corfu p. 782 figs., BRISTOWE Proc. Zool. Soc. London 1934.—*E. strandi* sp. n. Czechoslovakia p. 14 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.—*E. arctica*, *E. tirolensis* p. 336 pl., *E. psychrophila*, *E. whymperi* p. 344 pl. Spitzbergen, JACKSON 159.

Gongylidium gebhardti sp. n. Czechoslovakia p. 14 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

Lepthyphantes margaritæ p. 75 fig., *L. homonymus* p. 76 fig. spp. n. France,

DENIS Bull. Soc. ent. Fr. 39.—*L. strandi* sp. n. in cave, Hungary p. 10 figs., KOLOSARY Folia zool. hydrobiol. Riga 6.

Panamomops strandi sp. n. Czechoslovakia p. 15 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

Sintula affinioides sp. n. Czechoslovakia p. 42 fig., KOLOSARY Folia zool. hydrobiol. Riga 7.

Tapinocyba barsica sp. n. Czechoslovakia p. 15 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.—*T. transylvanica* sp. n. Czechoslovakia p. 42 fig., KOLOSARY Folia zool. hydrobiol. Riga 7.

Tiso strandi sp. n. Czechoslovakia p. 15 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

Typhochrestus septentrionalis sp. n. p. 342 pl., *T. borealis* var. *thori* var. n. pp. 333, 339, 340 pl., *T. borealis* p. 339 pl. Spitzbergen, JACKSON Norsk. ent. Tidsskr. Oslo 3.

Wubana, key to species, males, *W. drassoides* p. 215 pl., *W. pacifica* p. 217 pl. United States, BISHOP & CROSBY 39.

ULOBORIDAE.

Orinomana nom. n. for *Orinomus* Chamberlin 1916 p. 273, STRAND Folia zool. hydrobiol. Riga 6.

Uloborus tahitiensis sp. n. Tahiti p. 323 figs., BERLAND Ann. Soc. ent. Fr. 103.

ARGIOPIDAE.

Argiope sachalinensis sp. n. Southern Saghalien p. 332 fig., SAITO Trans. Sapporo Nat. Hist. Soc. 13.

Crosbyana nom. n. for *Parerigone* Crosby 1926, STRAND Folia zool. hydrobiol. Riga 6.

Cyclosa strandi Hungary, *C. baloghi* Banat Region spp. n. p. 12 figs., KOLOSARY Folia zool. hydrobiol. Riga 6.

Obrimona nom. n. for *Obrima* Simon 1894 p. 273, STRAND Folia zool. hydrobiol. Riga 6.

MIMETIDAE.

Kratochvilia nom. n. for *Miopristis* Simon 1907 p. 272, STRAND Folia zool. hydrobiol. Riga 6.

DRASSIDAE.

Callilepis wiehlei sp. n. Rhodes p. 780 figs., BRISTOWE Proc. Zool. Soc. London 1934.

Crosbyellum nom. n. for *Minosia* Dalmas 1921 p. 272, STRAND Folia zool. hydrobiol. Riga 6.

Drassodes reimoseri sp. n. Rhodes p. 779 figs., BRISTOWE Proc. Zool. Soc. London 1934.—*D. shumakovi* sp. n. Sareptam Kinguta p. 1 pl., SPASSKY J. N.Y. Ent. Soc. 42.

Leptodrassus hylaestomachi sp. n. from stomach of *Hyla arborea*, Gran Canaria p. 424 fig., BERLAND Proc. Zool. Soc. London 1934.

Nomisio henryi sp. n. Port-Cros Island p. 13 pl., DENIS Ann. Soc. d'Hist. nat. Toulon 18.

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Pterotricha shnitnikovii sp. n. Turkestan p. 137 figs., SPASSKY Rev. franc. Ent. Paris 1.

Trochanteria gomezi sp. n. Argentine p. 234 fig., CANALS Physis B. Aires 11.

Zelotes samoensis sp. n. Samoa p. 325 figs., BERLAND Ann. Soc. ent. Fr. 103.

SPARASSIDAE.

Olios strandi sp. n. Australia p. 44 figs., KOLOSVÁRY Folia zool. hydrobiol. Riga 7.

Strandiellum gen. n. [near *Stasina*]; *S. wilhelmshafenii* sp. n. New Guinea p. 45 figs., KOLOSVÁRY Folia zool. hydrobiol. Riga 7.

Thelcticopis biroi sp. n. New Guinea p. 44 fig., KOLOSVÁRY Folia zool. hydrobiol. Riga 7.

THOMISIDAE.

Amyciaea forticeps India p. 233 figs., BHATTACHARYA 36.

Metadiaea vulgaris sp. n. p. 88 fig., *M. mello-leitão* p. 90 fig. Brazil, PIZA Rev. Biol. Hyg. S. Paulo 4.—*M. dubitata* Brazil p. 4 fig., PIZA 280.

Misumena rubromaculata p. 1 fig., *M. parva* p. 2 fig. spp. n. Brazil, PIZA Rev. Biol. Hyg. S. Paulo 5.

Misumenops pallida sp. n. Tahiti p. 98 figs., BERLAND Bull. Bishop Mus. Honolulu 113.—*M. rapaensis* Tubuai Islands p. 329 figs., BERLAND Ann. Soc. ent. Fr. 103.

Onocolus episcopus sp. n. Brazil p. 48, MELLO-LEITÃO Rev. chil. Hist. nat. 38.

Oxyptila okefinokensis sp. n. United States p. 13 fig., GERTSCH Amer. Mus. Nov. N.Y. 707.

Philodromus anomalus p. 16 figs., *P. barrowsi* p. 17 fig., *P. wyomingensis* p. 18 fig., *P. medicis* p. 20 fig., *P. deceptus* p. 21, *P. peninsulanus*, *P. speciosus* p. 22 figs., *P. josemitensis* p. 23 fig., *P. lutulentus* p. 24 spp. n. United States, GERTSCH Amer. Mus. Nov. N.Y. 707.

Synaema glaucothorax sp. n. Brazil p. 5 fig., PIZA Rev. Biol. Hyg. S. Paulo 5.

Xysticus strandi sp. n. Czechoslovakia p. 15 fig., KOLOSVÁRY Folia zool. hydrobiol. Riga 6.—*X. verecundus* Mexico p. 2 figs., *X. pretiosus* p. 6 fig., *X. hesperus* p. 6 fig., *X. peninsulanus* p. 7, *X. lutulentus* p. 8 fig., *X. concursus* p. 9 fig., *X. britcheri* p. 10 fig. United States spp. n., *X. canadensis* nom. nov. for *Oxyptila cinerea* Emerton 1892 (not *X. cinereus* C. L. Koch 1837, not *Thomisus cinereus* Blackwall 1861) p. 5, *X. quinquepunctatus* United States p. 4 fig., GERTSCH Amer. Mus. Nov. N.Y. 707.

CLUBIONIDAE.

Clubiona australiaca sp. n. Australia p. 46 figs., KOLOSVÁRY Folia zool. hydrobiol. Riga 7.

Miturga fagei sp. n. Australia p. 46 figs., KOLOSVÁRY Folia zool. hydrobiol. Riga 7.

ATTIDAE.

Ballus lendli sp. n. Czechoslovakia p. 17 fig., KOLOSVÁRY Folia zool. hydrobiol. Riga 6.

Bristowia gen. n. [Cytacinae], *B. heterospinosa* sp. n. Krakatau, REIMOSER Proc. Zool. Soc. London 1934.

Dendryphantus nidicoloides sp. n. Czechoslovakia p. 16 fig., KOLOSVÁRY Folia zool. hydrobiol. Riga 6.

Euophrys graecum sp. n. Delphi p. 783 fig., BRISTOWE Proc. Zool. Soc. London 1934.—*E. mottli* Banat Region, *E. caporiaccii* Hungary spp. n. p. 16 figs., KOLOSARY Folia zool. hydrobiol. Riga 6.

Menemerus parietinus sp. n. Transcaucasia p. 135 figs., SPASSKY Rev. franc. Ent. Paris 1.

Metacyrba floridana sp. n. United States p. 19 fig., GERTSCH Amer. Mus. Nov. N.Y. 726.

Metaphidippus paintus sp. n. United States p. 18 fig., GERTSCH Amer. Mus. Nov. N.Y. 726.

Peckhamia idahoana sp. n. United States p. 11 figs., GERTSCH Amer. Mus. Nov. N.Y. 726.

Pellenes shoshonensis United States p. 20 figs., *P. captiosus* Minnesota p. 20, *P. altanus* p. 21 fig. Canada spp. n., GERTSCH Amer. Mus. Nov. N.Y. 726.

Phidippus altanus Canada and United States p. 12 fig., *P. kaibabensis* p. 13 fig., *P. peritus* p. 14 fig., *P. adumbratus* p. 15 fig., *P. concinnus* p. 16 fig. United States spp. n., GERTSCH Amer. Mus. Nov. N.Y. 726.

Philotheroides nom. n. for *Philotherus* Thorell 1895 p. 275, STRAND Folia zool. hydrobiol. Riga 6.

Phintodes nom. n. for *Phintia* Simon 1901 p. 275, STRAND Folia zool. hydrobiol. Riga 6.

Pseudicius courtauldi sp. n. Patmos p. 786 figs., BRISTOWE Proc. Zool. Soc. London 1934.

Sandalodes rufescens sp. n. Marquesas Islands p. 334 figs., BERLAND Ann. Soc. ent. Fr. 103.

Sassacus aemulus sp. n. Minnesota p. 22 fig., GERTSCH Amer. Mus. Nov. N.Y. 726.

Sitticus appolinis sp. n. Greece p. 784 figs., BRISTOWE Proc. Zool. Soc. London 1934.—*S. strandi* sp. n. Czechoslovakia p. 16 fig., KOLOSARY Folia zool. hydrobiol. Riga 6.

SOLIFUGAE.

ROEWER 300, 301.

Ammotrecha key to spp. p. 596, ROEWER 300

Ammotrechelis gen. n. [*Ammotrechinae*] for type *A. goetschi* sp. n. South America p. 592, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechella gen. n. [*Ammotrechinae*] for type *A. geniculata* (Koch) p. 594, *A. diasporea* sp. n. Cape Verde Is. (?) pp. 594, 595, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechesta gen. n. [*Ammotrechinae*] for type *A. schluteri* Honduras p. 599 fig., *A. brunnea* Costa Rica p. 600 spp. n., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechidae fam. n. p. 578, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechinus gen. n. [*Ammotrechinae*] for type *A. gryllipes* (Gervais) West Indies p. 599, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechinae subfam. n. [*Ammotrechidae*] p. 590, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechona gen. n. [*Ammotrechinae*] p. 595 for type *A. cubae* (Lucas) West Indies p. 596, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Ammotrechula gen. n. [*Ammotrechinae*] p. 600 for type *A. saltatrix* (Simon), key to spp. p. 601, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Blossia falcifera quibensis p. 404, *B. falcifera omatjensis* p. 405 fig., *B. falcifera natalensis* p. 405 subsp. n. South Africa, HEWITT Ann. Transv. Mus. 15.

Chinchippus peruvianus South America p. 582 fig., ROEWER 300.

Daesiella gen. n. [near *Daesia*] for type *D. pluridens* sp. n. South Africa p. 406 figs., HEWITT Ann. Transv. Mus. 15.

Eremacantha gen. n. [*Eremobatinae*] for type *E. robusta* sp. n. United States p. 571, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremobates durangonus sp. n. Mexico p. 557, *E. spp.* p. 574, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremobatidae fam. n. p. 550, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremobatinae s. str. p. 555, ROEWER 300.

Eremochelis gen. n. [Eremobatinae] for type *E. insignitus* sp. n. United States p. 570, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremocosta gen. n. [Eremobatinae] p. 569 for type *E. gigas* sp. n. Mexico p. 569, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremognatha gen. n. [Eremobatinae] p. 566 for type *E. tuberculata* (Kraepelin), key to spp. p. 566, *E. guenini* sp. n. Mexico pp. 567, 569, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremoperna gen. n. [Eremobatinae] p. 557 for type *E. affinis* (Kraepelin), key to spp. p. 557, *E. mormona* sp. n. United States p. 561, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremopus gen. n. [Eremobatinae] p. 561 for type *E. montezuma* sp. n. Mexico p. 564, *E. purpusi* pp. 562, 563, *E. mexicanus* pp. 563, 564, *E. hessei* pp. 563, 564, *E. fagei* pp. 563, 565 Mexico, *E. dorsalis* pp. 564, 565, United States spp. n., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremorhax gen. n. [Eremorhaxinae] p. 553 for type *E. magnus* (Hancock) p. 553, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremorhaxinae subfam. n. [Eremobatidae] for genus *Eremorhax* p. 553, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremoseta gen. n. [Eremobatinae] for type *E. titschacki* sp. n. United States p. 569 fig., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremospina gen. n. [Eremobatidae] p. 565 for type *E. tolteca* (Pocock) Mexico p. 565 fig., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Eremostata gen. n. [Eremobatinae] p. 571 for type *E. cinerascens* (Koch), key to spp. p. 572, *E. arizonica* United States pp. 572, 574, *E. dinamita* Mexico pp. 573, 574 spp. n., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Galeodarus gen. n. [Galeodidae] p. 547 for type *G. insidiator* sp. n. Arabia p. 548, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Galeodellus gen. n. [Galeodidae] p. 537 for type *G. caspius* (Birula), key to spp. p. 538, *G. nigrichelis* Caucasus pp. 541, 544, *G. heymonsi* Turan pp. 538, 544,

G. sejugatus Tienschan Mts. pp. 539, 544, *G. rapax* Tienschan Mts. pp. 542, 544, *G. ctenogaster* India pp. 538, 544, *G. gravelyi* India pp. 539, 545, *G. cursor* India pp. 540, 545, *G. spectabilis* India pp. 542, 545, *G. fremitans* Beluchistan pp. 538, 546, *G. pugnator* Beluchistan pp. 540, 546, *G. melanopalpus* Beluchistan pp. 541, 546, *G. belutschistanus* Iran pp. 541, 547, *G. trichotichnus* Persia pp. 540, 547, *G. tarabulus* North Africa pp. 542, 547 spp. n., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Galeodenna gen. n. [Galeodidae] p. 513 for type *G. fischeri* (Hirst), *G. dekanica* sp. n. India p. 514, ROEWER Bronns Klassen u. Ordnungen 5.

Galeodes, key to spp. p. 514, *G. bocharicus* Turan (Bochara) pp. 517, 523, 527, *G. sythicus* Turkestan pp. 517, 527, *G. turanus* Turan pp. 522, 527, *G. mongolicus* Mongolia pp. 523, 527, *G. sedulus* Tienschan Mt. (Kara-Schehr) pp. 524, 527, *G. montivagans* Tienschan Mt. (Kara-Schehr) pp. 522, 527, *G. hindostanus* Further India pp. 517, 523, 528, *G. parvus* Further India pp. 523, 528, *G. signatus* Beluchistan pp. 521, 529, *G. interritus* Beluchistan pp. 524, 529, *G. melanalis* Beluchistan pp. 525, 529, *G. altriceps* Persia pp. 524, 529, *G. bicolor* Iran pp. 522, 530, *G. ctenoides* Iran pp. 521, 525, 530, *G. egregius* Transcaucasia pp. 519, 525, 530, *G. separandus* Armenia pp. 522, 531, *G. elegans* Macedonia pp. 520, 525, 531, *G. hellenicus* Morea pp. 516, 523, 531, *G. forcipatus* Asia Minor pp. 520, 531, *G. subsimilis* Armenia pp. 516, 531, *G. conversus* pp. 524, 531, *G. lapidosus* Asia Minor pp. 525, 531, *G. raptor* Asia Minor pp. 519, 524, 531, *G. sulfuripes* Mesopotamia pp. 520, 526, 532, *G. laniator* Mesopotamia pp. 515, 522, 532, *G. babylonicus* pp. 524, 532, *G. dorsalis* Arabia pp. 517, 532, *G. litigious* Arabia pp. 520, 526, 532, *G. lacertosus* Arabia pp. 518, 532, *G. ventralis* Arabia pp. 525, 533, *G. schendicus* Egypt pp. 520, 533, *G. rhamses* Egypt pp. 515, 522, 534, *G. abessinicus* Abyssinia pp. 520, 534, *G. reimoseri* Abyssinia pp. 525, 534, *G. somalicus* Somaliland pp. 521, 534, *G. wadaicus* Wadai pp. 516, 534, *G. clavatus* North Africa pp. 519, 524, 534, *G. simplex* North Africa pp. 515, 522, 534, *G. crassichelis* North Africa pp. 524, 534, *G. palpalis* N. Africa pp. 523, 524, *G. minimus*

North Africa pp. 515, 535, *G. minor*
North Africa pp. 516, 535, *G. revestitus*
North Africa pp. 517, 535, *G. perotis*
North Adamana pp. 519, 535, *G.*
kraepelini **nom. nov.** for *G. sericeus* ♂
Kraepelin, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Galeodessus **gen. n.** [*Galeodidae*] for
type *G. taurus* **sp. n.** Mesopotamia
p. 549, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Galeodibus **gen. n.** [*Galeodidae*] p. 511
for type *G. blanchardi* (Simon), key to
pp. p. 511, *G. flavivittatus*, *G. tripoli-*
tanus, *G. fessanus* North Africa, *G.*
timbuktus West Africa p. 512 **spp. n.**,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Galeodila **gen. n.** [*Galeodidae*] p. 536
for type *G. bengalica* Further India, *G.*
trinkleri Afghanistan, *G. pusilla* North
Africa **spp. n.** p. 537, ROEWER Bronns
Klassen u. Ordnungen des Tierreichs 5.

Galeodora **gen. n.** [*Galeodidae*] for type
G. distincta **sp. n.** Palestine p. 513,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Gaucha stoeckeli **sp. n.** South America
p. 588, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Innessa **gen. n.** [*Saronominae*] for type
I. vittata (Pocock) S. America p. 581,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Lipophaga michaelseni South West
Africa p. 402 figs., HEWITT 140.

Metacleobis **gen. n.** [*Mummuciinae*]
for type *M. fulvipes* **sp. n.** South
America p. 589, ROEWER Bronns Klas-
sen u. Ordnungen des Tierreichs 5.

Metasolpuga **gen. n.** [*Solpuginae*] p.
493 for type *M. picta* (Kraepelin),
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Mummucia mendoza pp. 584, 585, *M.*
patagonica p. 585 **spp. n.** South America,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Mummuciella **gen. n.** [*Mummuciinae*]
p. 587 for type *M. simoni*, *M. atacama*
spp. n. South America p. 587, ROEWER
Bronns Klassen u. Ordnungen des
Tierreichs 5.

Mummuciinae **subfam. n.** [*Ammotre-*
chidae] p. 582, ROEWER Bronns Klassen
n. Ordnungen des Tierreichs 5.

Mummuciona **gen. n.** [*Mummuciinae*]
for type *M. simoni* **sp. n.** South America
p. 590, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Mummucipes **gen. n.** [*Mummuciinae*]
p. 585 for type *M. paraguayensis* **sp. n.**
South America p. 586 fig., ROEWER
Bronns Klassen u. Ordnungen des
Tierreichs 5.

Neocleobis **gen. n.** [*Ammotrechinae*]
p. 592 for type *N. solitarius* Banks
Galapagos Islands p. 593 fig. ROEWER
Bronns Klassen u. Ordnungen des
Tierreichs 5.

Oltacola **gen. n.** [*Oltacolinae*] for type
O. gomezi, *O. chacoensis* South America
p. 608 fig., ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Oltacolinae **subfam. n.** [*Ammotrechi-*
dae] p. 607, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Oparba **gen. n.** [*Solpuginae*] p. 484 for
type *O. maroccana* (Kraepelin) N. Africa
p. 484, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Oparbica **gen. n.** [*Solpuginae*] p. 485
for type *O. togona* **sp. n.** p. 486, *O.*
brunnea **sp. n.** p. 486 North Togo,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Oparbona **gen. n.** [*Solpuginae*] p. 483
for type *O. simoni* **sp. n.** Algiers,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Prosolpuga **gen. n.** [*Solpuginae*] p. 492
for type *P. schultzei* (Kraepelin),
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Pseudocleobis, key to **spp.** p. 602,
P. chilensis **sp. n.** South America pp.
604, 605 fig., ROEWER Bronns Klassen
u. Ordnungen des Tierreichs 5.

Saronominae **subfam. n.** [*Ammo-*
trechidae] p. 579, ROEWER Bronns
Klassen u. Ordnungen des Tierreichs 5.

Solpuga, key to **spp.** p. 495, *S.*
striolata **nom. nov.** for *S. striata* Hewitt
1931 p. 502, ROEWER Bronns Klassen u.
Ordnungen des Tierreichs 5.

Solpugelis **gen. n.** [*Solpuginae*] for
type *S. pictichelis* **sp. n.** Kalahari p. 486,
ROEWER Bronns Klassen u. Ordnungen
des Tierreichs 5.

Solpugiba gen. n. [*Solpuginae*] p. 487 for type *S. lineata* (Koch), key to spp. p. 488, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Solpugista gen. n. [*Solpuginae*] p. 490 for type *S. hastata* (Kraepelin), key to spp. p. 490, *S. signata* sp. n. Abyssinia p. 491 figs., ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Tetracleobis gen. n. [*Ammotrechinae*] for type *T. hirschmanni* (Kraepelin) South America p. 605, ROEWER Bronns Klassen u. Ordnungen des Tierreichs 5.

Zeriassa cuneicornis prelleri subsp. n. South West Africa p. 401, HEWITT Ann. Transv. Mus. 15.

PSEUDOSCORPIONES.

REDIKORZEV 290.

Faunal lists. — Lancashire and Cheshire, FALCONER 107; Worcester-shire, SAVORY 318.

Chelifer (*Chelanops*) *mongolicus* Mongolia p. 423 fig., *C. (Chelanops) turanicus* Transcaspien p. 425 figs., *C. persicus* Persia p. 427 figs., *C. beieri* Buchara p. 429 figs., *C. semenovi* Turkestan p. 430 figs. spp. n., REDIKORZEV Zool. Jahrb. Jena (Syst.) 65.

Chthonius (*Centrochthonius*) *schnitnikovi* sp. n. Russia p. 439 fig., REDIKORZEV Zool. Jahrb. Jena (Syst.) 65.—*C. (Neochthonius) pygmaeus* Italy p. 53 fig., *C. (Ephippiochthonius) pyrenaicus* France p. 55 fig., *C. (Chthonius) cephalotes horridus* p. 54 fig., *C. (Ephippiochthonius) austriacus boldorii* p. 56 fig. subspp. n. Italy, BEIER Mitt. Höhlen-u.-Karstf. Berlin 1934.

Dinocheirus, notes on genus p. 128 fig., CHAMBERLIN 64.

Garypus (*Geogarypus*) *continentalis* sp. n. Russia p. 432 figs., REDIKORZEV Zool. Jahrb. Jena (Syst.) 65. *

Lophochernes cryptus sp. n. [nom. nov. for species erroneously recorded as *L. bifissus* Simon from Hawaii] Hawaii p. 11, J. C. CHAMBERLIN Occ. Pap. Bernice P. Bishop Museum 10.

Microcreagris gracilis Russia p. 434 figs., *M. ussuriensis* Ussuri p. 436 figs., *M. tenuis* Mongolia p. 437 figs. spp. n., REDIKORZEV Zool. Jahrb. Jena (Syst.) 65.

Neobisium (*Neobisium*) *lombardicum* sp. n. in cave, Italy p. 57 fig., BEIER Mitt. Höhlen-u.-Karstf. Berlin 1934.

Pachycheirus gen. n. p. 125 for type *P. instabilis* sp. n. p. 126 fig. Montana, CHAMBERLIN Pan-Pacific Ent. S. Francisco 10.

Parachelifer montanus sp. n. Montana p. 129 fig., CHAMBERLIN Pan-Pacific Ent. S. Francisco 10.

Roncus (*Parablothrus*) *remyi* sp. n. France p. 59 fig., *R. (Parablothrus) stussneri carinthiacus* subsp. n. Austria p. 58 fig., BEIER Mitt. Höhlen-u.-Karstf. Berlin 1934.

OPILIONES.

Faunal lists. — Lancashire and Cheshire, FALCONER 107; Worcester-shire, SAVORY 318.

PHALANGODIDAE.

Bupares pachytarsus sp. n. Perak p. 48 figs., ROEWER Bull. Raffles Mus. Singapore 1933.

Tweediellus gen. n. [*Phalangodinae*] *T. longipes* sp. n. Perak p. 49 figs. ROEWER Bull. Raffles Mus. Singapore 1933.

ASSAMIIDAE.

Umtaliella gen. n. [*Assamiinae*] p. 549, *U. rhodesiensis* sp. n. Rhodesia p. 550 fig., LAWRENCE Ann. S. Afr. Mus. 30.

GONYLEPTIDAE.

Afranius gen. n. [*Pachylinae*], *A. amarali* sp. n. Brazil p. 409 fig., MELLO. LEITÃO Mem. Inst. Butantan S. Paulo 8.

Diplocaldasius gen. n. [*Gonyleptinae*] p. 414 for type *D. pallidus* sp. n. p. 415 fig., MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

Gonyleptes antiquus sp. n. p. 415 fig., MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

Japyra gen. n. [*Pachylinae*] p. 410 for type *J. regularis* sp. n. p. 411 fig. Brazil, MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

Leitaoius ornatus p. 412 fig., *L. guttulatus* p. 413 fig. spp. n. S. America, MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

Metagonyleptes misandrus sp. n. p. 416 fig., MELLO-LEITÃO Mem. Inst. Butantan S. Paulo 8.

TRIAENONYCHIDAE.

Adaeulum brevidentatum sp. n. South Africa p. 575 fig., LAWRENCE Ann. S. Afr. Mus. 30.

Austromontia bidentata p. 568 fig., *A. litoralis* p. 569 fig. spp. n. South Africa, key to spp. p. 571, LAWRENCE Ann. S. Afr. Mus. 30.

Biacumontia variegata sp. n. South Africa p. 571, key to spp. p. 573, LAWRENCE Ann. S. Afr. Mus. 30.

Ceratomontia reticulata p. 511 fig., *C. sanguinea* p. 554 fig., *C. namaqua* p. 555 fig., *C. pusilla* p. 556 fig., *C. nasuta* p. 558 fig., *C. annae* p. 560 fig., *C. ruricola* p. 562 fig., *C. thorni* p. 563 fig. spp. n. South Africa, key to spp. p. 564, LAWRENCE Ann. S. Afr. Mus. 30.

Larifuga mantoni sp. n. South Africa p. 579 fig., LAWRENCE Ann. S. Afr. Mus. 30.

Larifugella longipalpis S. Africa p. 577 fig., LAWRENCE Ann. S. Afr. Mus. 30.

Paramontia gen. n. [*Triaenonychinae*], *P. infinita* sp. n. South Africa p. 566 fig., key to spp. p. 568, LAWRENCE Ann. S. Afr. Mus. 30.

Roeverania gen. n. [*Triaenonychidae*], *R. lignicola* sp. n. South Africa p. 573 fig., LAWRENCE Ann. S. Afr. Mus. 30.

ACROPSOPILIONIDAE.

Cadella spatulipilis sp. n. South Africa p. 582 fig., key to spp. p. 584, LAWRENCE Ann. S. Afr. Mus. 30.

ISCHYROPSALIDAE.

Ischyropsalis helwigii in cave, Austria p. 44, SCHÜLLER 330.

PHALANGIIDAE.

Chasenella gen. n. [*Gagrellinae*], *C. luma* p. 46 fig., *C. pakka* p. 47 fig. spp. n. Borneo, ROEWER Bull. Raffles Mus. Singapore 1933.

Lacinius parisii sp. n. Italy p. 21, TROSSARELLI Atti Soc. ital. Milano 73.

Leiobunum, revision of genus, key to species p. 663, *L. depressum* p. 674 pl., *L. peninsulare* p. 685 pl., *L. relictum* p. 688 pl. spp. n. *L. flavum leiopenis*

p. 677 pl., *L. ventricosum floridanum* p. 695 pl. subspp. n. United States, DAVIS Amer. Midl. Nat. Notre Dame 15.

Phalangium opilio, teratological notes p. 1 figs., KOLOSÁRY 197.

Rhampsinitus ceratops sp. n. South Africa p. 584 fig., LAWRENCE Ann. S. Afr. Mus. 30.

Roeweriolus hungaricus, biological notes p. 6 figs., KOLOSÁRY 197.

ANTHARCOMARTI.

SCHULZE 338.

RICINULEI.

[Vacant.]

ACARI.

EWING 104.

THOR 383.

Faunal list.—Greenland, JØRGENSEN 174; Iceland, THOR 386; Lancashire and Cheshire, FALCONER 107; HULL 154; HULL & FALCONER 156; Pulau Berhala Islands, MEER MOHR 234; Worcestershire, SAVORY 318.

ACARI.

(with the exceptions of *Hydrachnoidea* and *Ixodoidea*).

Acarapis externus with sound stock of bees p. 368 figs., HOMANN 147.—*A. woodi*, *A. dorsalis*, *A. externus*, comparative notes p. 429 figs., MORGENTHAUER 254.

Acronothrus nukuhivae sp. n. p. 218 fig., *A. nukuhivae hivaoae* subspp. n. p. 220 Marquesas Is., JACOT Bull. Bishop Mus. Honolulu 114.

Alliphis halleri with sound stock of bees p. 367 fig., HOMANN 147.

Allothrombium delicatulum sp. n. Australia p. 210 figs., key to Australian species p. 211, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.—*A. fuliginosum* larva, with sound stock of bees p. 379 fig., HOMANN 147,

Austrothrombium gen. n. [near *Dinothrombium*], *A. australiense* p. 207 figs., *A. kondinium* p. 208 figs. Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Bdellidae, monograph p. 1, THOR 383.

Belaustium newmani p. 225 figs., *B. glauerti*, *B. litorale* p. 226 figs., *B. brevum* p. 227 figs., *B. ripicola* p. 228 figs., *B. insularum* p. 229 figs. spp. n. Australia, key to Australian species p. 230, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.—*B. cristatum* sp. n. Australia p. 250 figs., WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Bockartia ? *longipes* sp. n. Australia p. 252 figs., WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Caeculisoma ripicola p. 238 figs., *C. johnstoni* p. 241 figs. spp. n. *C. nasutum* p. 236 figs., *C. montana* p. 237 figs. Australia, key to Australian forms p. 243, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Caenothrombium album p. 204 figs., *C. minutum* p. 206 figs. spp. n. *C. sericatum* p. 201 figs., *C. nynganense* p. 205 figs., key to Australian species p. 206, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Caloglyphus introitus sp. n. Tahiti p. 111 fig., JACOT Bull. Bishop Mus. Honolulu 113.

Calvoppia gen. n. [*Eremaeini*; near *Phallopia*] for type *C. perkinsi* sp. n. p. 28 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Calyptostoma prominens Australia p. 235 figs., WOMERSLEY 432.

Carabodini trib. n. for type *Carabodes* p. 10, JACOT Bull. Bishop Mus. Honolulu 121.

Cardioribates gen. n. [*Oribatulini*] for type *Oribata oriformis* p. 37 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Cepheini trib. n. p. 11 for type *Cepheus*; JACOT Bull. Bishop Mus. Honolulu 121.

Chaetodactylus osmia with sound stock of bees p. 387 fig., HOMANN 147.

Cheyletus eruditus with sound stock of bees p. 378 fig., HOMANN 147.

Chyzeria, key to Australian and New Zealand species p. 183, *C. australiense*

p. 182 figs., *C. australiense* var. *hirsti* var. n. p. 183 Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Cocceupodes curviclava sp. n. Norway p. 178, THOR Zool. Anz. Leipzig 108.

Copidognathus fabriciusi Germany p. 101 fig., SCHULZ Schr. naturw. Ver. Sch.-Holst. 20.

Cryptognathidae, monograph p. 78, THOR 383.

Cryptoribatula gen. n. [*Oribatoidea*, near *Oribatula*] for type *C. taishanensis* sp. n. in lichens, China p. 465 figs., JACOT Ann. Ent. Soc. Amer. Columbus 27.

Dameosoma ultraciliata p. 19 pl., *D. alces* p. 23 pl. spp. n. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Epilohmanina verrucosa sp. n. Hawaiian Islands p. 6 pl., JACOT Bull. Bishop Mus. Honolulu 121.

Eremaeini trib. n. p. 28 for type *Eremaeus*, JACOT Bull. Bishop Mus. Honolulu 121.

Erythraeidae, key to, larval, Australian forms p. 253, WOMERSLEY 432.

Erythraeus perthense p. 244 figs., *E. buforanivus*, *E. dasypodiae* p. 245 figs. spp. n. Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.—*E. aonidiphagus* sp. n. United States p. 33 figs., EBELING Pan-Pacific Ent. San Francisco 10.—*E. urbrae* sp. n. p. 221 figs., *E. celeripes* p. 218 figs., *E. reginae* p. 219 figs., *E. pilosus* p. 220 figs. Australia, key to Australian species p. 222, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Eupodes, key to some spp. p. 214 *E. voxencollinus* Norway p. 208 figs., *E. vallombrosae* Italy p. 212 fig., *E. hjartdaliae* p. 213 fig., *E. skiaaki* p. 213 fig. Norway spp. n., THOR Zool. Anz. Leipzig 105.—*E. longipilus* sp. n. South Africa p. 178, THOR Zool. Anz. Leipzig 108.

Galumna, key to spp. p. 117, *G. virginicensis* p. 87 figs., *G. banksi* p. 96 figs., *G. alatum* p. 98 figs., *G. longipluma* p. 103 figs., *G. flagelliferum* p. 106 figs., *G. curvum* p. 109 figs., *G. lanceatum*, *octopunctatum* p. 91 figs., *G. alatum binadalare* p. 103 figs., *G. curvum ventralis* p. 115 figs. United States, JACOT J. N.Y. Ent. Soc. 42.—*G. hawaiiensis marquesana* subsp. n. Marquesas Islands

p. 232 fig., JACOT Bull. Bishop Mus. Honolulu 114.—*G. hawaiiensis* sp. n. p. 77 pls., *G. swezeyi* p. 75 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Glycyphagus domesticus, biology p. 483, HORA 148.—*G. domesticus*, *G. spinipes* with sound stock of bees p. 384 figs., HOMANN 147.

Halacarellus subterraneus sp. n. p. 100 figs., *H. hexanthus* var. *parva* var. n. p. 99 fig., *H. capuzinus* p. 98 figs. Germany, SCHULZ Schr. naturw. Ver. Sch.-Holst. 20.

Halarachne magellanica sp. n. from *Otaria byronia* Falklands Islands p. 319 figs., FINNEGAN Discovery Reports 7.

Hauptmannia westraliense p. 249 figs., *H. mullewaensis* p. 250 figs. spp. n. Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Humerobates humeralis perkinsi subsp. n. Hawaiian Islands p. 67, JACOT Bull. Bishop Mus. Honolulu 121.

Hygroribates gen. n. [Oribatoidea] for type *Nothrus* (?) *marinus* Banks 1896 p. 330, *H. marinus* comb. n. intertidal area, United States p. 331 pl., JACOT J. N.Y. Ent. Soc. 42.

Imparatoppia gen. n. [Oribatoidea; near *Phauloppia*] for type *I. imparata* p. 30 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Indotritia lebronneci sp. n. p. 234 figs., *I. lebronneci flagelloides* form. n. p. 236, *I. lebronneci crassiori* subsp. n. p. 237 figs. Marquesas Islands, JACOT Bull. Bishop Mus. Honolulu 114.—*I. lebronneci tahitiana* subsp. n. Tahiti p. 114 fig., JACOT Bull. Bishop Mus. Honolulu 113.—*I. bryani* Hawaiian Islands p. 83 pl., JACOT 164.

Ixobiodes gen. n. [Ixodorhynchidae] p. 512, *I. butantanensis* sp. n. in snake. South America p. 512 figs., FONSECA Z. Parasitenkunde Berlin 6.

Ixodes caledonicus sculpturatus subsp. n. on bird, Germany p. 60 figs., SCHULZE SitzBer. naturf. Ges. Rostock (3) 2.

Ixodorhynchidae fam. n. for the subfamily *Ixodorhynchinae* Ewing 1922, with *Ixodorhynchus* Ewing 1922 as type p. 511, FONSECA Z. Parasitenkunde Berlin 6.

Lasioseius muricatus with sound stock of bees p. 390 fig., HOMANN 147.

Leiodynychus krameri infesting house, Belgium p. 112 figs., ANDRÉ 7.

Leptus ornatus sp. n. p. 224, *L. warregense* p. 223 Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.—*L. chelonethus* p. 246 figs., *L. bathypogonus* p. 247 figs. spp. n. Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Lewenhoekia australiense Australia p. 217 figs., WOMERSLEY 432.

Limnohalacarus Stygohalacarus subgen. n. p. 137 for type *L. (Stygohalacarus) scupiensis* sp. n. Yugoslavia in subterranean waters p. 138 figs., VIETS Zool. Anz. Leipzig 105.

Melittiphis alvearius with sound stock of bees p. 366 figs., HOMANN 147.

Meristacarus gen. n. [near *Lohmannia*] p. 44, *M. porcula* p. 35 figs. Central America, West Indies, GRANDJEAN Bull. Soc. zool. Fr. 59.

Mesoplophora pulchra, structure p. 357 figs., GRANDJEAN 125.

Microlichus uncus sp. n. on *Ornithomyia fringillina* p. 1 pls. text-figs., VITZTHUM Bull. Mus. Hist. nat. Belg. 10.—*M. uncus* parasitic on Diptera p. 1 fig., COLLART 72.

Microsmaris, redefinition of genus, *M. hirsti* sp. n. p. 223 figs., *M. goannae* p. 232 figs. Australia, key to Australian species p. 235, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Microtrombidium westraliense p. 188 figs., *M. myrmicum* p. 189 figs., *M. karriensis* p. 191 figs., *M. spinatum* p. 192 figs., *M. (Enemothrombium) adalaidicum*, *M. (Enemothrombium) newmani* p. 194 figs., *M. (Enemothrombium) victoriense* p. 195 figs., *M. (Enemothrombium) hirsti* p. 196 figs., *M. (Enemothrombium) southcotti* p. 197 figs. spp. n. key to Australian species p. 198, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Myobia magna sp. n. on *Pteropus medius* (Indian flying fox) England p. 363 figs., *M. musculi* p. 357 figs., *M. ensifera* p. 358 figs., *M. multivaga* p. 359 figs., *M. oudemansi* p. 360 figs., *M. lancearia* p. 360 figs., *M. rollinatti* p. 361 figs., *M. trouessarti* p. 362 figs., *M. brevikhamata* p. 364 figs., REDFORD North Western Naturalist 1934.—*M.*

ratti sp. n. [entered in paper as n. n. but described as distinct species] from *Rattus norvegicus* form *albinus* Canada p. 110 fig., SKIDMORE Canad. Ent. 66.

Myrmicotrombium gen. n. [near *Diplothrombium* Berlese and *Rohaultia* Oudemans], for type *M. brevicristatum* sp. n. Australia p. 186 figs., WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Neoliodes Berlese 1888 s.s. defined p. 141, GRANDJEAN 124.—*N. theleproctus*, some characters of nymph and larva p. 464 fig., GRANDJEAN 126.

Neotrombidium barringtonense Australia p. 185 figs., WOMERSLEY 432.

Nesiotizetes gen. n. [Oribatidae, *Ceratozetini*] for type *N. adamsoni* sp. n. Marquesas Islands p. 229 figs., JACOT Bull. Bishop Mus. Honolulu 114.

Nicolettiella lyra in cave, Italy p. 50 figs., WILLMANN 429.

Nicolettiellidae, monograph p. 66 THOR 383.

Notothrombium gen. n. for type *N. regis-borisi* sp. n. Bulgaria p. 66 figs., STORKÁN Bull. Inst. Roy. Hist. nat. Sofia 7.

Odontocephus immarginatus sp. n. Hawaiian Islands p. 12 pls., JACOT Bull. Bishop Mus. Honolulu 121.

Ophionyssus serpentium on snakes p. 1004 figs., SCHROEDER 322.

Oppia cronus sp. n. Hawaiian Islands p. 25 pls., JACOT Bull. Bishop Mus. Honolulu 121.

Oribatella brevicornuta sp. n. p. 707 figs., *O. brevicornuta plummeri* p. 709 fig., *O. brevicornuta extensa* p. 710 fig. subspp. n. United States, JACOT Amer. Midl. Nat. Notre Dame 15.

Oribatini, trib. n. p. 15 for type *Oribata*, JACOT Bull. Bishop Mus. Honolulu 121.

Oribotritia hawaiiensis Hawaiian Islands p. 81 pls., JACOT 164.—*O. berlessei*, palp p. 466 fig., GRANDJEAN 126.

Parasitus coleopratorum with sound stock of bees p. 362 figs., HOMANN 147.

Paratetranychus pilosus New Zealand p. 39 figs., COTTIER 76.

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Pergamasus barbarus giganteus in cave, Italy p. 45 figs., WILLMANN 429.

Phauloppia bryani sp. n. Hawaiian Islands p. 34 pl., JACOT Bull. Bishop Mus. Honolulu 121.

Phthiracarus insularis sp. n. Marquesas Islands p. 233 figs., JACOT Bull. Bishop Mus. Honolulu 114.

Phyllocoptes schlechtendali p. 17 fig., LISTO 215.

Poroliodes gen. n. [Oribatoidea] for type *Nothrus thelaproctus* Michael p. 141 figs., GRANDJEAN Ann. Soc. ent. Fr. 103.

Protoreunetes börneri sp. n. Iceland p. 129 figs., THOR 386, Zool. Anz. Leipzig 107.

Protoschelobates gen. n. [Oribatoidea] for type *Murcia insularis* p. 40 pl., *P. vanzwaluwenburgi* p. 44 pl., *P. pember-toni* p. 47 pl., *P. castlei* p. 49 pl. spp. n. *P. insularis sandvicensis* subsp. n. p. 41 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Rhagidia osloensis sp. n. Norway p. 314 figs., THOR Zool. Anz. Leipzig 105.—*R. strasseri* in cave, Italy p. 46 figs., WILLMANN 429.

Rhizoglyphus natiformius sp. n. Marquesas Islands p. 215 fig., JACOT Bull. Bishop Mus. Honolulu 114.

Rhombognathus intermedius sp. n. Germany p. 96 figs., SCHULZ Schr. naturw. Ver. Schl.-Holst. 20.

Scapheremaeus petrophagus comb. n. in lichens, United States p. 462 figs., JACOT Ann. Ent. Soc. Amer. Columbus 27.

Scheloribates *Paraschelobates* subgen. n. for type *S. (Paraschelobates) mumfordi* sp. n. p. 225 figs., *S. (Paraschelobates) mumfordi wapoii* subsp. n. p. 228 fig.—*S. fimbriatus whitteni* subsp. n. p. 221 fig., *S. fimbriatus whitteni hivaocae form. n.* p. 222 fig., *S. fimbriatus whitteni nukuhivae form. n.* p. 222, *S. indicus marquesalis* subsp. n., *S. indicus marquesalis nukuhivensis form. n.* p. 224 figs. Marquesas Islands, JACOT Bull. Bishop Mus. Honolulu 114.—*S. muiri* p. 53 pl., *S. manoi* p. 56 pl., *S. oahuensis* p. 57 pl. spp. n. *S. fimbriatus calcaratus* subsp. n. p. 58 pl., *S. indica* p. 52 pl. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.

Scheloriadini trib. n. for *Scheloriabates* Berlese 1908 p. 221, JACOT Bull. Bishop Mus. Honolulu 114.

Schongastia westraliense, *S. petrogale* p. 215 figs. spp. n. *S. antipodianum* p. 213 figs., *S. coorongense*, *S. dasycerci* p. 214 figs. Australia, WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.

Scutacarus femoris with sound stock of bees p. 376 figs., HOMANN 147.

Sphaerolophus westraliense sp. n. Australia p. 231 figs., WOMERSLEY Rec. Aust Mus. Adelaide 5.

Stygohalacarus subgen. n. vide *Limnohalacarus*.

Styloribates gen. n. [*Oribatoidea*] for type *S. pectinatus* sp. n. Hawaiian Islands p. 61 pl., JACOT Bull. Bishop Mus. Honolulu 121.

Tarsonemus apis with sound stock of bees p. 373 figs., HOMANN 147.—*T. translucens*, tentative identification of mite causing disease in plants, Philippines p. 523, FAJARDO & BELLOSILLO. 106.

Telioliodes gen. n. [*Oribatoidea*] p. 142 for type *T. madininiensis* sp. n. Martinique p. 144 figs., GRANDJEAN Ann. Soc. ent. Fr. 103.

Tetranychus ludeni on geraniums, France p. 123 fig., HARDOUIN 133.—*T.*, note on systematics, p. 352, ANDRÉ 5.

Trombella warregensis Australia p. 185 figs., WOMERSLEY 432.

Trombicula signata sp. n. Australia p. 199 figs., WOMERSLEY Rec. S. Aust. Mus. Adelaide 5.—*T. hirsti* p. 212 figs., *T. novaehollandiae* p. 213 figs. Australia, WOMERSLEY 432.

Trimbiidiidae key to adult genera of Australian forms p. 211, key to larval Australian forms p. 217, WOMERSLEY 432.

Tydeus langei sp. n. Iceland p. 126 figs., THOR Zool. Anz. Leipzig 107.

Tyroglyphus longior with sound stock of bees p. 382, HOMANN 147.

Udetaliodes hawaiiensis aculeatisetae subsp. n. Marquesas Islands p. 221 fig., JACOT Bull. Bishop Mus. Honolulu 114.—*U. funafutiensis* Funafuti Island p. 181 figs., key to *U. bataviensis*, *U.*

lamellatus p. 183, JACOT 169.—*U. hawaiiensis wakensis* Hawaiian Islands p. 10 pl., JACOT 164.

Xyloribates pembertoni sp. n. Hawaiian Islands p. 64 pl., JACOT Bull. Bishop Mus. Honolulu 121.

Zetes bryani marquesi subsp. n. p. 231 fig., *Z. bryani marquesi matauruna* form. n. p. 231, *Z. bryani uapoui* subsp. n. p. 233 Marquesas Islands, JACOT Bull. Bishop Mus. Honolulu 114.—*Z. fordii* p. 73 pl., *Z. bryani* p. 74 pl. spp. n. *Z. australis pembertoni* p. 70 pl. subsp. n. Hawaiian Islands, JACOT Bull. Bishop Mus. Honolulu 121.—*Z. gramineum* sp. n. p. 65 pl., *Z. corrugis milleri* subsp. n. p. 72 pl., *Z. emarginatus bidens* mut. n. p. 82 pl., *Z. emarginatus coscobensis* var. n. p. 83, *Z. arboreus* p. 57 pl., *Z. niger* p. 58 pl., *Z. minutus* p. 67, *Z. corrugis* p. 69 pl., *Z. emarginatus* p. 72 pl., *Z. nervosus* p. 83 figs. *Z. elimatus ithacensis* p. 53 figs. United States, JACOT J. N.Y. Ent. Soc. 43.

HYDRACHNOIDEA.

Faunal lists.—Holland, BESSEING 35; Ussuri Region, SOKOLOV 356.

Acherontacarus fonticolus sp. n. p. 273 figs. description of larval form probably of *A.* sp. p. 276 figs. Yugoslavia in subterranean waters, VIETS Zool. Anz. Leipzig 105.

Albia stationis var. *orientalis* var. n. Siberia p. 379 figs., SOKOLOV Zool. Jahrb. Jena (Syst.) 65.

Arrenurus (*Truncaturus*) *nagysallosensis* sp. n. Czechoslovakia, SZALAY, p. 64 figs., Zool. Anz. Leipzig 107.

Atractides semisutus p. 347 figs., *A. abbreviatus* p. 350 figs. spp. n. *A. ellipticus* p. 346 figs. Siberia, SOKOLOV Zool. Jahrb. Jena (Syst.) 65.

Aturus complexus p. 373 figs., *A. latus* p. 376 figs., *A. ussuriensis* p. 377 figs. spp. n. Siberia, SOKOLOV Zool. Jahrb. Jena (Syst.) 65.—*A. ovalis* p. 95 figs., *A. miyashitai* p. 101 figs. spp. n. Japan, UCHIDA J. Fac. Sci. Hokkaido Zool. 3.

Axonopsis (*Hexaxonopsis*) *elongata* sp. n. Siberia p. 371 figs., SOKOLOV Zool. Jahrb. Jena (Syst.) 65.

Calonyx montanus p. 97 fig., *C. flagellum* p. 99 fig. spp. n. India, LUNDBLAD Mem. Coun. Acad. Arts. Sci. 10.

Cerberothrombium subgen. n. vide *Stygothrombium*.

Eylais degenerata transvaalensis subsp. n. Transvaal p. 30 figs., VIETS Senckenbergiana Frankfurt 16.—*E. hamata* p. 85 fig., *E. degenerata* p. 88 fig. India, LUNDBLAD 217.

Feltria Mesofeltria subgen. n. p. 106, *F. (Mesofeltria) torrenticola* p. 107 figs., *F. (Mesofeltria) rotunda* p. 112 figs. spp. n. Japan, UCHIDA J. Fac. Sci. Hokkaido Zool. 3.

Gnaphiscus affinis sp. n. Siberia p. 343 figs., SOKOLOW Zool. Jahrb. Jena (Syst.) 65.

Hydrachna (Diplohydrachna) conjecta India p. 107 fig., LUNDBLAD 217.

Hygrobates foreli Japan p. 92 fig., UCHIDA 392.—*H. neutralis* sp. n. p. 381 figs., *H. (Rhabdotobates) sokolowi* var. *longituberculatus* var. n. Siberia p. 353 figs., SOKOLOW Zool. Jahrb. Jena (Syst.) 65.

Kashmirothyas gen. n. [*Hydryphantidae*], *K. hutchinsoni* sp. n. India p. 102 figs., LUNDBLAD Mem. Conn. Acad. Arts Sci. 10.

Lebertia (Pilolebertia) stackelbergi p. 327 figs., *L. (Pilolebertia) pachypalpis* p. 330 figs., *L. (Lebertia) ussuriensis* p. 334 figs., *L. (Lebertia) sutschanica* p. 337 fig., *L. (Lebertia) acuta* p. 338 figs., spp. n. *L. (Apolebertia) densa* var. *aberrans* var. n. p. 341 figs., *L. (Pilolebertia) porosa* var. ? p. 325 figs., *L. (Pilolebertia) riabuschinskii* p. 332 figs. Siberia, SOKOLOW Zool. Jahrb. Jena (Syst.) 65.

Megapus gassowskii p. 362 figs., *M. odarkensis* p. 364 figs., *M. gracilis* p. 366 figs., *M. rectipes* p. 367 figs. spp. n. *M. nodipalpis* var. *constrictus* var. n. p. 361 figs. Siberia, SOKOLOW Zool. Jahrb. Jena (Syst.) 65.—*M. proximalis* sp. n. India p. 108 fig., LUNDBLAD Mem. Coun. Acad. Arts Sci. 10.

Mesobates longipes sp. n. Siberia p. 358 figs., SOKOLOW Zool. Jahrb. Jena (Syst.) 65.

Mixobates uncatus Siberia p. 355 figs., SOKOLOW 356.

Parathyas primitiva sp. n. India p. 101 fig., LUNDBLAD Mem. Conn. Acad. Arts Sci. 10.

Protzia japonica sp. n. p. 73 figs., *P. eximia* var. p. 68 figs., ? *P. caucasica* p. 70 figs. Japan, UCHIDA J. Fac. Sci. Hokkaido Zool. 3.—*P. eximia* Siberia p. 317 figs., SOKOLOW 356.

Protziella gen. n. [*Protziidae*], *P. hutchinsoni* sp. n. p. 92 figs. India, LUNDBLAD Mem. Conn. Acad. Arts Sci. 10.

Pseudosperchon nipponicus sp. n. p. 88 figs., *P. verrucosus* var. p. 87 figs. Japan, UCHIDA J. Fac. Sci. Hokkaido Zool. 3.

Rivobates ezoensis sp. n. Japan p. 92 figs., UCHIDA J. Fac. Sci. Hokkaido Zool. 3.—*R. microepimeratus* sp. n. Siberia p. 356 figs., SOKOLOW Zool. Jahrb. Jena (Syst.) 65.

Rutripalpus gen. n., *R. limicola* sp. n. Russia p. 318 figs., SOKOLOW Zool. Anz. Leipzig 107.

Sperchon (Sperchon) minutiporus sp. n. p. 322 figs., *S. (Hispidosperchon) plumifer* p. 320 figs. Siberia, SOKOLOW Zool. Jahrb. Jena (Syst.) 65.—*S. (Squamosperchon) fluviatilis* sp. n. p. 79 figs., *S. (Squamosperchon) glandulosus* p. 76 figs., *S. (Hispidosperchon) plumifer* p. 84 figs. Japan, UCHIDA J. Fac. Sci. Hokkaido Zool. 3.

Stygohalacarus scupiensis in subterranean waters p. 120 figs., VIETS 411.

Stygothrombium Cerberothrombium subgen. n., *S. (Cerberothrombium) armatum* sp. n. Yugoslavia in subterranean waters p. 121 figs., VIETS Zool. Anz. Leipzig 106.

Tartarothyas gen. n. [*Hydrachnellae*] for type *T. micrommata* sp. n. Yugoslavia in subterranean waters p. 133 figs., VIETS Zool. Anz. Leipzig. 105.—*T. micrommata* in subterranean waters p. 118 fig., VIETS 411.

IXODOIDEA.

OLENEV 265.

SCHULZE 338.

Faunal lists.—Kenya Colony, LEWIS 214; South Africa, BEDFORD 24.

Amblyomma torrei on *Cyclura macleayi* ("iguana") Cuba p. 17, VIGUERAS Psyche Boston 41.—*A. albopictum*, description of female on *Cyclura macleayi* Habana p. 128, VIGUERAS 414.

Boophilus, monograph on genus, key to species p. 8, *B. Uroboophilus* subgen. n. p. 22, *B. (Uroboophilus) fallax* Africa, Madagascar, Comoron Islands p. 22 figs., *B. (Uroboophilus) sharifi* Further India, Ceylon p. 23 figs., *B. (Uroboophilus) distans* China, Formosa p. 25 fig., *B. (Uroboophilus) sinensis* China, Japan, Formosa p. 25 figs., *B. (Uroboophilus) krijgsmani* Malayia p. 29 figs., *B. (Uroboophilus) rotundiscutatus* Malayia p. 30 figs., *B. (Uroboophilus) longiscutatus* Malayia p. 31 fig., *B. (Uroboophilus) cyclops* Central and South America p. 35 figs., *B. schulzei* for type *Rhipicephalus annulatus* Say p. 13 fig., *B. congolensis* Congo p. 18 figs. spp. n. *B. calcaratus balcanicus* Europe, Asia Minor p. 16 figs., *B. calcaratus palestinensis* p. 17 figs., Palestine, Egypt subspp. n., MINNING Z. Parasitenkunde Berlin 7.

Dermacentor silvarum ablutus Siberia p. 425 figs., *D. marginatus lacteolus* p. 424 subspp. n., SCHULZE Z. Parasitenkunde Berlin 6.—*D. sinicus* sp. n. p. 62, *D. sinicus sinicus* p. 62 fig., *D. sinicus pallidior* p. 63 fig. subspp. n. China, SCHULZE SitzBer. naturf. Ges. Rostock (3) 3.

Haemaphysalis campanulata hoeppliana subsp. n. China p. 59 figs., SCHULZE SitzBer. naturf. Ges. Rostock (3) 3.

Hyalomma sharifi India, *H. volgensis* Russia, *H. tunesianum* Tunis p. 35, *H. zambesianum* East Africa, *H. cypriacum* Cyprus p. 38, *H. rhinocerotis* East Africa p. 39, *H. uralense* p. 38 spp. n. *H. dromedarii asiaticum* Buhara, *H. dromedarii canariense* Canary Islands p. 34, *H. detritum dardanicum* Macedonia, *H. detritum pavlovskyi*, Caucasus, *H. lusitanicum algericum* Algiers, *H. savignyi exsul* Cyprus p. 36, *H. savignyi impellatum* West Africa, *H. impressum brunneiparmatum* Togo, *H. savignyi impellatum*, *H. savignyi iberum* Spain, *H. detritum damascenium* Damascus p. 37, *H. lusitanicum cicatricosum* Canary Islands, *H. savignyi armeniorum* Armenia p. 38, *H. marginatum olenevi* Armenia, *H. marginatum brionicum* Brioni Is., *H. balcanicum* South Russia, Asia Minor, North Africa p. 40, *H. marginatum annulipes* p. 42, *H. impressum luteipes* Sudan p. 44 subspp. n. *H. impressum nitidum* f. *brevipus* form. n. Cameroons p. 44, SCHULZE & SCHLOTTKE SitzBer.

naturf. Ges. Rostock (3) 2.—*H. (?) walckenaerii* notes on the species p. 142, BEQUAERT 27.

Indocentor gen. n. for type *Dermacentor auratus* Neumann 1901 p. 417, *I. confractus* Java p. 420 figs., *I. steini* from wild swine, New Guinea p. 422 spp. n. *I. steini steini* p. 422 fig., *I. steini leviculus* p. 423 fig., *I. compactus tricuspis* Philippine Islands p. 419 fig. subspp. n., SCHULZE Z. Parasitenkunde Berlin 6.

Ixodes (Ceratiixodes) putus procellariae subsp. n. Denmark p. 123 figs. Germany, SCHULZE SitzBer. naturf. Ges. Rostock (3) 2.—*I. melicola*, *I. strigicola*, *I. dryadis* p. 105, *I. rugicollis* p. 107 spp. n. *I. plumbeus bavaricus*, *I. plumbeus obotriticus* p. 105, *I. arboricola arboricola*, *I. arboricola domesticus* p. 107 subspp. n. Germany, SCHULZE & SCHLOTTKE SitzBer. naturf. Ges. Rostock (3) 2.—*I. passericola* sp. n. from *Passer montanus* p. 432 fig., *I. sciuricola* from *Sciurus vulgaris* Germany p. 434 figs., *I. nivalis* Germany p. 435 fig., *I. frontalis* Bulgaria p. 437 fig., *I. frontalis brunneus* North America p. 437 fig., SCHULZE Z. Parasitenkunde Berlin 6.—*I. priscicollaris* sp. n. p. 109 fig., SCHULZE SitzBer. naturf. Ges. Rostock (3) 3.

Ornithodoros foleyi, description of larval form, North Africa p. 505 figs., COLAS-BELCOUR 71.

TARDIGRADA.

LAMEERE 208.

Pseudechiniscus marinae sp. n. Czechoslovakia p. 175, BARTOS Zool. Anz. Leipzig 106.

PENTASTOMIDA.

LAMEERE 208.

Armillifer moniliformis from lungs of oriental pythons p. 118 pls., HILL Bull. S. Calif Acad. Sci. 33.

Linguatula serrata in dog, South Africa p. 1 fig., ORTLEPP 268.

Raillietiella Heymonsia subgen. n. p. 427, R. (*Heymonsia*) *hemidactyli* sp. n. from lungs of *Hemidactylus gleadowi* and *Calotes versicolor* Burma p. 428 figs., HETT Proc. Zool. Soc. London 1934.

MYRIOPODA.

CHILOPODA.

BRADÉ-BIRKS, 52.

VERHOEFF 401.

Alipes crotalus Natal p. 514 fig., ATTEMS 14.

Arctogeophilus sachalinus Sachalin Is. sp. n. p. 15, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Arthrhabdus formosus Natal p. 506 fig., ATTEMS 14.—*A. somalus* sp. n. Italian Somaliland p. 278 figs., MANFREDI Atti Soc. ital. Milano 72.

Aethobius scutiger sp. n. Mexico p. 91, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Aztekophilus gen. n. [*Geophilinae*] p. 26, *A. Aztekophilus*, *A. Thylakiophilus* subgg. n. p. 28, *A. (Aztekophilus) storkani* p. 28 pl., *A. (Thylakiophilus) mexicanus* p. 29 spp. n. Mexico, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Aztekophilus subgen. n. vide *Aztekophilus*.

Ballophilus braunsi Natal p. 501 pl., ATTEMS 14.

Bothriogaster wohlberedti sp. n. Jericho p. 21 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Brachygeophilus compactus sp. n. Puget Sound p. 313 fig., ATTEMS Zool. Anz. Leipzig 107.

Brachygonaria borealis sp. n. Puget Sound p. 314 fig., ATTEMS Zool. Anz. Leipzig 107.

Brachyschendyla (*Microschendyla*) *aternana* sp. n. Aquila p. 4 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*B. pectinata* sp. n. Brazil p. 311 figs., ATTEMS Zool. Anz. Leipzig 107.

Chilenaria subgen. n. vide *Queenslandophilus*.

Chinobius subgen. n. vide *Lithobius*.

Cormocephalus, key to species from Natal p. 507, ATTEMS 14.

Cryptops (*Haplocryptops*) *acapulcensis* Mexico p. 39 pl., *C. (Cryptops) caucasicus*, N. Caucasus p. 42 pl., *C. garganensis* Italy p. 47 spp. n. *C. (Cryptops) croaticus albanicus* Greece p. 45, *C. croaticus bergomatus* in cave, Italy p. 46, *C. parisi sebini* p. 48 Italy

p. 48 subspp. n., VERHOEFF? Zool. Jahrb. Jena (Syst.) 66.—*C. illyricus* sp. n. in cave Mankovscina p. 10 figs., VERHOEFF Mitt. Höhlen-u.-Karstf. Berlin 1933.—*C. japonicus* sp. n. Japan p. 404 figs., TAKAKUWA Trans. Sapporo Nat. Hist. Soc. 13.

Dicelophilus japonicus sp. n. Japan p. 32 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*D. latifrons* sp. n. Japan p. 355 figs., TAKAKUWA Annot. zool. jap. 14.

Esastigmatobius longitarsus sp. n. Japan p. 86 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Escarys jacoti sp. n. Korea p. 6 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Geoperingueyia conjungens Natal p. 501 pl., ATTEMS 14.

Geophilus monoporus sp. n. Japan p. 403 figs., TAKAKUWA Trans. Sapporo Nat. Hist. Soc. 13.—*G. (Onychopodogaster) fimbriatus* Palestine p. 11 pl., *G. (Bothrogeophilus) larii* Germanedo (Lecco) p. 14 spp. n. *G. carpophagus judaicus* Palestine p. 11 pl., *G. trebevicensis poschiavensis* Poschiavo (Puschlaw) p. 13 subspp. n., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Hedinobius gen. n. [near *Esastigmatobius*], *H. hummelii* sp. n. Central Asia p. 87, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*Hedinobius* [*Henicopidae*] p. 31, compared with *Esastigmatobius* p. 33, *H. hummelii* sp. n. China p. 32 pl., VERHOEFF Ark. Zool. Stockholm 26a.

Henia illyrica oblonga subsp. n. (Is. in Prebsa Sea) p. 17, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Himantarium gabrielis appenninorum subsp. n. Marmore p. 21 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Lestophilus cordobanensis sp. n. Mexico p. 24 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Lithobius Chinobius subgen. n. p. 24, *L. (Chinobius) svenhedini* p. 25 pl., *L. (Chinobius) hummelii* p. 26 pl., *L. (Alokobius) kansuanus* p. 26 China, *L. (Porobius?) mongolicus* Mongoli. p. 34 spp. n., VERHOEFF Ark. Zool. Stockholm 26A.—*L. (Monotarsobius) rhysus* China p. 315, *L. (Australobius) fissuratus* Vladivostok p. 316 spp. n., ATTEMS Zool. Anz. Leipzig 107.—*L. (Pleuroolithobius) jonicus buchneri* Ischia

Is., *L. (Pleuroliothobius) jonicus porosus* Albania p. 58, *L. marmorensis* Italy p. 78, *L. aostanus* Norway *L. palmarum*, *L. (Archiliobius) pellicensis* Piemont p. 83 pl. spp. n. *L. acuminatus apruzianus* Italy *L. tylopus pesarensis* Italy p. 80, *L. doriae heterodus* Italy p. 92 pl. subsp. n., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*L. sp.* Kurile Islands p. 135 pl., TAKAKUWA 377.

Lochochaetotarsus gen. n. [*Lithobiidae*] p. 89, *L. dampfi* sp. n. Mexico p. 90 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Mecistocephalus fenestratus p. 35 pl., *M. (Mecistocephalus) takakuwai* p. 36 pl., *M. (Mecistocephalus) marmoratus* p. 38 spp. n. Japan, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*M. ongi* p. 360 figs., *M. brevisternalis* p. 362 fig. spp. n. Japan, TAKAKUWA Annot. zool. jap. 14.

Mesocanthus latisternus sp. n. Afghanistan p. 310, ATTEMS Zool. Anz. Leipzig 107.

Mexicotarsus gen. n. [*Lithobiidae*] p. 88, *M. sulcatus* sp. n. United States p. 89 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Monotarsobius sp. Kurile Islands p. 134 pl., TAKAKUWA 377.

Nesogeophilus tiosianus p. 399 figs., *N. kozuensis* p. 400 fig., *N. littoralis* p. 402 figs. spp. n. Japan, TAKAKUWA Trans. Sapporo Nat. Hist. Soc. 13.

Otocryptops sexspinosus quadristriatus subsp. n. Tokyo p. 54, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Pachymerium ferrugineum tyrrhenum subsp. n. p. 7 Pelato, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*P. imbricatum* sp. n. Natal p. 501 pl., ATTEMS Ann. Natal Mus. P'mburg 7.

Paralamyctes, key to species p. 515, ATTEMS 14.

Paraplanes gen. n. [*Scolioplanidae*] p. 22, *P. svenhedini* sp. n. p. 23 pl. China, VERHOEFF Ark. Zool. Stockholm 26A,

Parapolybothrus subgen. n. vide *Polybothrus*.

Pleurogeophilus takakuwai sp. n. Japan p. 16 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Polybothrus Parapolybothrus p. 67, *P. Schizopolybothrus* p. 73 subgg. n.,

P. (Parapolybothrus) electrinus Italy p. 65 pl., *P. fasciatus albanicus* Albania, *P. fasciatus storkani* Macedonia Albania p. 72, *P. leptopus germanicus* Germany p. 77 pl. subsp. n., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*P. praecursor alarichi* subsp. n. Italy p. 317, ATTEMS Zool. Anz. Leipzig 107.

Polygonarea oligopus Natal p. 503 pl., ATTEMS 14.

Prolamnonyx obtusus p. 358 fig., *P. dentatus* p. 359 figs. spp. n. Japan, TAKAKUWA Annot. zool. jap. 14.

Pterygotergidae fam. n., comparison with *Lithobiidae* p. 28, VERHOEFF Ark. Zool. Stockholm 26A.

Pterygotergum gen. n. [*Pterygotergidae*], *P. svenhedini* sp. n. p. 29 pl. China, VERHOEFF Ark. Zool. Stockholm 26A.

Queenslandophilus Chilenarea subgen. n., *Q. (Chilenarea) goetschi* sp. n. Australia p. 23 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Rhysida afra petersi subsp. n. Natal p. 514, ATTEMS Ann. Natal Mus. P'mburg 7.—*R. nuda somala* subsp. n. Italian Somaliland p. 281, MANFREDI Atti Soc. ital. Milano 72.

Schendyla (Schendyla) gracillima sp. n. Ischia Is. p. 4, VERHOEFF Zool. Jahrb. Jena (Syst.) 66.—*S. (Echinoschendyla) pellicensis* sp. n. Piedmont p. 3 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Schendylurus gracilis sp. n. Surinam p. 312 figs., ATTEMS Zool. Anz. Leipzig 107.

Schizopolybothrus subgen. n. vide *Polybothrus*.

Scolioplanes acuminatus Kurile Islands p. 132 pl., TAKAKUWA 377.

Scolopendra aztecorum p. 49, *S. octodentata* p. 52 United States spp. n., *S. viridis storkani* p. 50, *S. viridis lagunensis* p. 51 United States subsp. n., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Scolopendromorpha, key to genera from Natal p. 505, ATTEMS 14.

Thalthybius tenuicolis sp. n. Japan p. 498 figs., TAKAKUWA Trans. Sapporo Nat. Hist. Soc. 13.

Thracophilus pachypus sp. n. Palestine p. 18 pl., VERHOEFF Zool. Jahrb. Jena (Syst.) 66.

Thylakiophilus subgen. n. vide *Aztekophilus*.

Tygarrup moirwaensis sp. n. Japan p. 357 figs., TAKAKUWA Annot. zool. jap. 14.

DIPLOPODA.

BRADÉ-BIRKS 52.

SCHUBART 324, 326.

VERHOEFF 401.

Faunal lists.—Bulgaria, SCHUBART 323; Czechoslovakia, LANG 209; Natal, ATTEMS 14.

Acanthopetalum verhoeffi sp. n. Cherso Island p. 176 figs., STASZER Verh. Zool.-bot. Ges. Wien 83.

Aetheandra gen. n. [*Polydesmidae*] p. 35 for type *A. multiplex* sp. n. Tobago p. 38 pl., LOOMIS Smithsonian. Misc. Coll. 89.

Agenodesmus gen. n. [*Polydesmidae*] p. 38 for type *A. reticulatus* sp. n. West Indies p. 40 fig., LOOMIS Smithsonian. Misc. Coll. 89.

Alloporus falcatus Natal p. 484 pl., ATTEMS 14.

Amphelictogon bidens sp. n. West Indies p. 29 pl. text-fig., LOOMIS Smithsonian. Misc. Coll. 89.

Antillodesmus vincenti Grenada p. 30 fig., LOOMIS 216.

Aphelidesmus divergens West Indies p. 34 pl., LOOMIS 216.

Aporobolus gen. n. [*Spirobolidae*] p. 23 for type *A. crusoi* sp. n. Tobago p. 24 fig., LOOMIS Smithsonian. Misc. Coll. 89.

Azygobolus gen. n. [*Spirobolidae*] p. 25 for type *A. tumidus* West Indies p. 27 pl. text-fig., LOOMIS Smithsonian. Misc. Coll. 89.

Beatadesmus gen. n. [*Chelodesmidae*] p. 31 for type *B. utovani* sp. n. West Indies p. 32 fig., LOOMIS Smithsonian. Misc. Coll. 89.

Belonodesmus thaxteri West Indies p. 32 pl. text-fig., LOOMIS 216.

Bothropolys elongatus calabrussus subsp. n. Italy p. 269 fig., MANFREDI Atti Soc. ital. Milano 72.

Botrydesmus gen. n. [*Stylodesmidae*] p. 62 for type *B. lutosus* sp. n. Trinidad p. 64 fig., LOOMIS Smithsonian. Misc. Coll. 89.

Brachydesmus (*Schizobrachydesmus*) *armatus* sp. n. Cherso Island p. 180 figs., STASZER Verh. Zool.-bot. Ges. Wien 83.

Chaleponeus p. 494, key to species p. 495, *C. natalicus* p. 495 pl., *C. terreus* p. 496 pl. spp. n. Natal, ATTEMS Ann. Natal Mus. P'mburg 7.

Chersastus p. 474, key to species p. 475, *C. vastus* p. 477 pl. text-fig., *C. annulatus* p. 478 text-fig., *C. striolatus* p. 479 spp. n. *C. fasciatus* p. 476 pl., *C. inscriptus* p. 477 pl., *C. ruber* p. 478 pl., *C. vulpinus* p. 479 pl. Natal, ATTEMS Ann. Natal Mus. P'mburg 7.

Chilaphrodesmus gen. n. [*Polydesmidae*] p. 42 for type *C. rubellus* sp. n. Haiti p. 43 pl. text-fig., LOOMIS Smithsonian. Misc. Coll. 89.

Chromatoiulus glossulifer sp. n. Bulgaria p. 46, SCHUBART Bull. Inst. Roy. Hist. nat. Sofia 7.

Cubobolus ramagei St. Lucia p. 19 fig., LOOMIS 216.

Cylocyrtus ocreatus sp. n. Trinidad p. 66 pl. text-fig., LOOMIS Smithsonian. Misc. Coll. 89.

Cynedesmus simplex Dutch Guiana p. 58 fig., LOOMIS 216.

Dilophops gen. n. [*Hercodesmidae*] p. 59 for type *D. bullatus* sp. n. West Indies p. 61 pl., LOOMIS Smithsonian. Misc. Coll. 89.

Docodesmus sculpturatus Bahama Islands p. 45 pl. text-fig., *D. robustus* Tobago Island p. 47 pl. text-fig. spp. n. *D. haitiensis* Haiti p. 45 pl., *D. trinidadensis* West Indies p. 46 pl. text-fig., LOOMIS Smithsonian. Misc. Coll. 89.

Dolistenus menozzii sp. n. Italy p. 271 figs., MANFREDI Atti Soc. ital. Milano 72.

Doratogonus p. 483, *D. flavifilis*, *D. setosus*, *D. setosus uncinatus* p. 484 pl. ATTEMS 14.

Gasatomus emersoni Trinidad p. 57 pl., LOOMIS 216.

Glomeridesmus trinidadensis sp. n. Trinidad p. 7 pl., LOOMIS Smithsonian. Misc. Coll. 89.

Glomeris pulchra bukkariensis var. *progressa* var. n. Cherso Island p. 187, STASZER Verh. Zool.-bot. Ges. Wien. 83. —*G. (Stenopleuromeris) solis* sp. n. p. 153 Italy, VERHOEFF Zool. Anz. Leipzig 107.

Gnomeskelus p. 467, key to species from Natal p. 468 pl., *G. tuberosus* sp. n. Natal p. 469 pl. text-fig., ATTEMS Ann. Natal Mus. P'mburg 7.

Gymnostreptus, key to S. African species p. 481, *G. corrugatus* sp. n. p. 482 pl., *G. pyrrocephalus* p. 481 pl., *G. tubulinus* var. *exaratus* p. 482 Natal, ATTEMS Ann. Natal Mus. P'mburg 7.

Hedinomorpha gen. n. [*Strongylosomidae*] p. 13, *H. hummelii* sp. n. p. 15 pl., *H. hummelii* var. *hummelii*, *H. hummelii* var. *svenhedini* vars. n. p. 17 pl. China, VERHOEFF Ark. Zool. Stockholm 26A.

Helicochetus costatus p. 497 pl., *H. gracilis* p. 498 pl. spp. n. Natal, ATTEMS Ann. Natal Mus. P'mburg 7.

Heterisobates gen. n. [*Blaniulidae*] p. 37, *H. gracilis* sp. n. p. 38 pl. China, VERHOEFF Ark. Zool. Stockholm 26A.

Inodesmus peduncularis sp. n. Dutch Guiana p. 65 pl., LOOMIS Smithsonian. Misc. Coll. 89.

Iomoides gen. n. [*Chytodesmidae*] p. 49 for type, *I. hispidus* Haiti p. 51 pls. text-fig., *I. glabra* Haiti p. 53 pl. text-fig. spp. n., LOOMIS Smithsonian. Misc. Coll. 89.

Kansupus gen. n. [*Strongylosomidae*], *K. svenhedini* sp. n. p. 17 pl., *K. svenhedini dentiger* subsp. n. p. 19 pl. China, VERHOEFF Ark. Zool. Stockholm 26A.

Kochliopus gen. n. [*Strongylosomidae*], *K. trivittatus* sp. n. China p. 20 pl., VERHOEFF Ark. Zool. Stockholm 26A.

Leptoiulus chiesensis sp. n. Riva p. 148 fig., VERHOEFF Zool. Anz. Leipzig 107.—*L. (Oroiulus) macrovelatus* sp. n. Bulgaria p. 45 fig., SCHUBART Bull. Inst. Roy. Hist. nat. Sofia 7.

Lohmanderodesmus gen. n. [*Strongylosomidae*] p. 183 for type *L. galeatus* Candia (Kandy?) p. 181 figs., SCHUBART Zool. Anz. Leipzig 108.

Lophoproctus comans Trinidad p. 4 pl., *L. niveus* Beata Island p. 5 spp. n., LOOMIS Smithsonian. Misc. Coll. 89.

Lophostreptus similis sp. n. Angola p. 14 fig., ATTEMS Seckenbergiana Frankfurt 16.

Mandarinopus gen. n. [*Strongylosomidae*], *M. gracilips* sp. n. p. 19 pl. China, VERHOEFF Ark. Zool. Stockholm 26A.

Mastigophorophyllon bulgaricum sp. n. Bulgaria p. 38 figs., SCHUBART Bull. Inst. Roy. Hist. nat. Sofia 7.

Megaskamma gen. n. [*Spirostreptini*] for type *M. improvisa* sp. n. Angola p. 13 figs., ATTEMS Seckenbergiana Frankfurt 16.

Microspirobolus sigillatus Haiti p. 20 figs., *M. dorsetti* Tortola Is. p. 22 fig. spp. n., LOOMIS Smithsonian. Misc. Coll. 89.

Nanorhacus luciae St. Lucia p. 35 pl., LOOMIS 216.

Odontopyge p. 486, key to species p. 487, *O. zuluina* p. 490 pl., *O. inermis* p. 491 pl., *O. rustica* p. 492 pl. spp. n. *O. bullata*, *O. durbanica*, *O. trifolia discalceata* subsp. n. p. 493 pl. Natal, ATTEMS Ann. Natal Mus. P'mburg 7.

Ophiulus pilosus notes p. 192 figs., ROLFE 305.

Orthoporus tractus sp. n. Trinidad p. 13, LOOMIS Smithsonian. Misc. Coll. 89.

Phaodesmus miles Angola p. 5 figs., *P. neglectus* Belgian Congo p. 7 figs. spp. n., ATTEMS Seckenbergiana Frankfurt 16.

Philocaffrus teres sp. n. Natal p. 471 pl., ATTEMS Ann. Natal Mus. P'mburg 7.

Polydesmus (Polydesmus) elchowensis gladiatus subsp. n. Asia Minor p. 179 figs., SCHUBART Zool. Anz. Leipzig 108.—*P. (Polydesmus) renschi* sp. n. Bulgaria p. 40 fig., SCHUBART Bull. Inst. Roy. Hist. nat. Sofia 7.—*P.* key to subgenera p. 151, VERHOEFF 403.

Poratophilus diplodontus Natal p. 485 pl. text-fig., ATTEMS 14.

Priodesmus acus Dutch Guiana p. 33 pl., LOOMIS 216.

Prionosoma (Prionosoma) baldense sp. n. Mt. Baldo p. 141 figs., *P. (Prionosoma) canestrinii toscolanense* subsp. n. Toscolano-Schlucht. p. 140 figs., VERHOEFF Zool. Anz. Leipzig 107.

Psochodesmus crescentis United States p. 54 fig., *P. granuloforms* West Indies p. 55 fig., LOOMIS 216.

Pyrgocyphosoma tridentinum edrinum subsp. n. Gargnano p. 142 fig., VERHOEFF Zool. Anz. Leipzig 107.

Rhinocricus limatulus Guadeloupe p. 14 fig., *R. laticollis* Martinique p. 17 fig. spp. n. *R. consociatus ecaudatus* var. n. Grenada p. 18, *R. martiniquensis* Martinique p. 16 fig., *R. grammostictus* St. Lucia p. 18 fig., LOOMIS Smithson. Misc. Coll. 89.

Scaphiostreptus laccatus sp. n. Zululand p. 11 figs., ATTEMS Senckenbergiana Frankfurt 16.

Selenozophyllum bellulum sp. n. Angola p. 15 figs., ATTEMS Senckenbergiana Frankfurt 16.

Sphaerotherium, key to species p. 464 pl. text-figs., ATTEMS Ann. Natal Mus. P'mburg 7.

Siphonocybe harti Trinidad p. 9 pl., LOOMIS 216.

Siphonophora millepeda sp. n. Tobago Island p. 8 fig., LOOMIS Smithson. Misc. Coll. 89.

Spirostreptoidea, key to genera from Natal p. 480, ATTEMS 14.

Spirostreptus angolanus sp. n. p. 8 figs., *S. variabilis haasi* subsp. n. p. 9 figs. Angola, ATTEMS Senckenbergiana Frankfurt 16.

Stemmiulus surinamensis sp. n. Dutch Guiana p. 10 figs., *S. insulanus* p. 11 Trinidad, LOOMIS Smithson. Misc. Coll. 89.

Strongylosoma pallidicephalus sp. n. Asia Minor p. 183 figs., SCHUBART Zool. Anz. Leipzig 108.—*S. pallipes balcanicus* subsp. n. Bulgaria p. 42 figs., SCHUBART Bull. Inst. Roy. Hist. nat. Sofia 7.

Trimerophoron, key to subgenera p. 147, *T. Brentomeron* subgen. n. p. 148 for *T. brentanum* Verhoeff, *T. vestonense* sp. n. Vestone p. 146 figs., VERHOEFF Zool. Anz. Leipzig 107.

Typhloiulus illyricus stygis subsp. n. in cave Italy p. 15 figs., VERHOEFF Mitt. Höhlen-u.-Karstf. Berlin 1933.

Ulodesmus p. 471, key to species p. 472 pl., *U. margatensis* sp. n. Natal p. 473 pl., ATTEMS Ann. Natal Mus. P'mburg 7.

SYMPHILIDA.

BRADÉ-BIRKS 52.

VERHOEFF 401.

PAUROPODA.

BRADÉ-BIRKS 52.

VERHOEFF 400, 401.

Eurypauropus Latzelipus subgen. n. for *E. cycliger* Latzel p. 190, VERHOEFF Bronns Klassen u. Ordnungen des Tierreichs 5.—*E. okinoshimensis* sp. n. Japan p. 339 pl., ESAKI Annot. zool. jap. 14.

Latzelipus subgen. n. vide *Eury-pauropus*.

Pauropus medianus sp. n. United States p. 67 fig., HILTON Ent. News Philad. 45.

Remypus gen. n. for *R. sequanus* (Remy) p. 194, VERHOEFF Bronns Klassen u. Ordnungen des Tierreichs 5.

Samarangopus gen. n. for *Eury-pauropus jacobsoni* Silvestri p. 189, VERHOEFF Bronns Klassen u. Ordnungen des Tierreichs 5.

Thaumatapauropus gen. n. p. 340 for type *T. glomerans* sp. n. p. 341 pl. Japan, ESAKI Annot. zool. jap. 14.

PROTOTRACHEATA.

LAMEERE 208.

XI. INSECTA

BY

THE IMPERIAL INSTITUTE OF ENTOMOLOGY

FOREWORD

THE attention of readers is directed to the fact that owing to the necessity of keeping the "Insecta" part within reasonable limits, entomological papers written entirely from an economic standpoint are omitted, but abstracts of these will be found in the *Review of Applied Entomology*. Very brief systematic papers, usually those dealing only with a single species, are noticed in the systematic portion only and do not appear in the list of titles.

CONTENTS

| | PAGE |
|--|------|
| I. TITLES | 9 |
| II. SUBJECT INDEX :— | |
| General | 160 |
| Morphology | 162 |
| Development | 171 |
| Physiology | 175 |
| Aetiology | 178 |
| Ethology | 181 |
| Geography or Faunistic | 188 |
| III. SYSTEMATIC :—[Orders and families in alphabetical order.] | |
| General | 199 |
| Anoplura | 448 |
| (N-4573 j) | 11 |

| | PAGE | | PAGE |
|-------------------------------|------|-----------------------------|---------|
| Coleoptera | | | 199-266 |
| Aclopidae | 241 | Curculionidae | 245 |
| Aculagnathidae | 219 | Cyathoceridae | — |
| Adimeridae | — | Cyphonidae | 222 |
| Aegialiidae | 241 | Dascillidae | 222 |
| Aegialitidae | 237 | Dasytidae | 225 |
| <i>Alleculidae</i> | 235 | Dermostidae | 221 |
| Amphizoidae | — | Derodontidae | — |
| Anobiidae | 223 | <i>Dicronychidae</i> | 227 |
| Anthicidae | 238 | Discolomidae | 219 |
| Anthribidae | 255 | Donaciidae | 261 |
| Aphodiidae | 240 | Drilidae | 226 |
| <i>Aspidiphoridae</i> | 223 | <i>Dryopidae</i> | 222 |
| <i>Boridae</i> | 232 | Dynastidae | 242 |
| Bostrychidae | 223 | Dytiscidae | 208 |
| Brenthidae | 254 | Elateridae | 227 |
| Bruchidae | 261 | Endomychidae | 220 |
| Buprestidae | 229 | Erotylidae | 219 |
| Byrrhidae | 221 | Eucnemidae | 226 |
| Byturidae | — | Eumolpidae | 262 |
| <i>Cantharidae</i> | 225 | Galerucidae | 265 |
| Carabidae | 201 | Georyssidae | 222 |
| Cassididae | 266 | Geotrupidae | 241 |
| <i>Catopochrotidae</i> | 216 | Glaphyridae | — |
| Cebrionidae | — | Gnostidae | — |
| Cephaloidae | 238 | Gyrinidae | 209 |
| Cerambycidae | 255 | Halipidae | 208 |
| <i>Cerophytidae</i> | 226 | Halticidae | 263 |
| Cetoniidae | 243 | <i>Helmidae</i> | — |
| Chironidae | — | <i>Helodidae</i> | 222 |
| Chrysomelidae | 262 | Helotidae | — |
| Cicindelidae | 201 | <i>Hemi-peplidae</i> | 219 |
| Ciidae | 223 | Heteroceridae | — |
| Cistelidae | 235 | Hispidae | 265 |
| Clambidae | — | Histeridae | 218 |
| Cleridae | 224 | Hybosoridae | — |
| Clytridae... .. | 261 | Hydrophilidae | 222 |
| Coccinellidae | 220 | Hydroscaphidae | — |
| Colydiidae | 219 | Hygrobiidae | — |
| Copridae | 240 | Hylophilidae | 238 |
| Corylophidae | — | Idiostomidae | — |
| <i>Cossyphodidae</i> | 219 | <i>Ipidae</i> | 252 |
| Crioceridae | 261 | <i>Karumiidae</i> | 226 |
| Cryptocephalidae | 262 | Lagriidae | 235 |
| Cryptophagidae | 219 | Lamellicornia | 239 |
| Cucujidae | 219 | Lamiidae | 257 |
| Cupesidae | — | Lampyridae | 226 |

Coleoptera (contd.) :—

| PAGE | | | PAGE | | |
|----------------|-----|-----|------------------|-----|---------|
| Languriidae | ... | 219 | Pleocomidae | ... | — |
| Laridae | ... | 261 | Prionidae | ... | 255 |
| Lathridiidae | ... | 219 | Proterhinidae | ... | — |
| Leptinidae | ... | 216 | Pselaphidae | ... | 216 |
| Liodidae | ... | 218 | Psephenidae | ... | — |
| Longicornia | ... | 255 | Ptiliidae | ... | 218 |
| Lucanidae | ... | 239 | Ptinidae | ... | 223 |
| Lycidae | ... | 226 | Pyrochroidae | ... | 237 |
| Lyctidae | ... | 223 | Pythidae | ... | — |
| Lymexylonidae | ... | 224 | Rhagophthalmidae | ... | — |
| Megalopidae | ... | 261 | Rhipiceridae | ... | 223 |
| Megascelidae | ... | — | Rhipiphoridae | ... | — |
| Melandryidae | ... | 237 | Rhysodidae | ... | 208 |
| Melasidae | ... | 226 | Rhysopaussidae | ... | 232 |
| Meloidae | ... | 238 | Rutelidae | ... | 241 |
| Melolonthidae | ... | 241 | Sagridae | ... | 261 |
| Melyridae | ... | 224 | Sandalidae | ... | 223 |
| Micromalthidae | ... | — | Scalidiidae | ... | 219 |
| Monommidae | ... | 237 | Scaphidiidae | ... | — |
| Mordellidae | ... | 239 | Scolytidae | ... | 252 |
| Mycetophagidae | ... | 219 | Scraptidae | ... | 237 |
| Nilionidae | ... | — | Scydmaenidae | ... | 216 |
| Nitidulidae | ... | 219 | Serropalpidae | ... | 237 |
| Ochodaeidae | ... | — | Silphidae | ... | 216 |
| Oedemeridae | ... | 237 | Sphaeriidae | ... | — |
| Orphnidae | ... | — | Sphaeritidae | ... | — |
| Orsodacnidae | ... | — | Sphindidae | ... | — |
| Ostomidae | ... | — | Staphylinidae | ... | 210 |
| Othniidae | ... | — | Stylopidae | ... | 239 |
| Parnidae | ... | 222 | Taurocerastidae | ... | — |
| Passalidae | ... | 239 | Telephoridae | ... | 225 |
| Paussidae | ... | — | Temnochilidae | ... | — |
| Pedilidae | ... | 238 | Tenebrionidae | ... | 232 |
| Pelobiidae | ... | — | Thorictidae | ... | — |
| Perothopidae | ... | — | Throscidae | ... | 226 |
| Phalacridae | ... | 219 | Tretothoracidae | ... | 232 |
| Phengodidae | ... | 226 | Trichopterygidae | ... | 218 |
| Phylloceridae | ... | 227 | Trictenotomidae | ... | — |
| Phytophaga | ... | 261 | Trixagidae | ... | 226 |
| Platypidae | ... | 254 | Trogidae | ... | — |
| Platypsyllidae | ... | — | Trogositidae | ... | — |
| Collembola | ... | ... | ... | ... | 475-478 |
| Dermaptera | ... | ... | ... | ... | 460-461 |
| Diptera | ... | ... | ... | ... | 364-421 |
| Acanthomeridae | ... | 383 | Anisopodidae | ... | 368 |
| Agromyzidae | ... | 420 | Anthomyiidae | ... | 406 |

Diptera (contd.) :—

| | PAGE | | PAGE |
|------------------------------|------|----------------------------------|------|
| <i>Anthomyzidae</i> ... | 419 | <i>Micropezidae</i> ... | 414 |
| <i>Apioceridae</i> ... | — | <i>Milichiidae</i> ... | 420 |
| <i>Asilidae</i> ... | 384 | <i>Muscidae (s. str.)</i> ... | 406 |
| <i>Bibionidae</i> ... | 368 | <i>Muscidae Acalyptratae</i> ... | 410 |
| <i>Blepharoceridae</i> ... | 369 | <i>Muscidae Calyptratae</i> ... | 393 |
| <i>Bombyliidae</i> ... | 387 | <i>Mycetophilidae</i> ... | 367 |
| <i>Borboridae</i> ... | 410 | <i>Mydidae</i> ... | 384 |
| <i>Braulidae</i> ... | — | <i>Nemestrinidae</i> ... | 384 |
| <i>Calliphoridae</i> ... | 403 | <i>Neottiophilidae</i> ... | 410 |
| <i>Cecidomyiidae</i> ... | 364 | <i>Neriidae</i> ... | 414 |
| <i>Celyphidae</i> ... | 410 | <i>Nycteribiidae</i> ... | 421 |
| <i>Ceratopogonidae</i> ... | 369 | <i>Nymphomyiidae</i> ... | — |
| <i>Chamaemyiidae</i> ... | 420 | <i>Ochthiphilidae</i> ... | 420 |
| <i>Chiromyzidae</i> ... | — | <i>Oestridae</i> ... | 393 |
| <i>Chironomidae</i> ... | 371 | <i>Omphralidae</i> ... | 384 |
| <i>Chloropidae</i> ... | 415 | <i>Orphnephilidae</i> ... | — |
| <i>Clusiidae</i> ... | — | <i>Ortalidae</i> ... | 411 |
| <i>Clythiidae</i> ... | 391 | <i>Oscinidae</i> ... | 415 |
| <i>Coelopidae</i> ... | 410 | <i>Pachyneuridae</i> ... | 368 |
| <i>Coenomomyiidae</i> ... | — | <i>Pantophthalmidae</i> ... | 383 |
| <i>Conopidae</i> ... | 392 | <i>Petauristidae</i> ... | 377 |
| <i>Cordyluridae</i> ... | — | <i>Phoridae</i> ... | 390 |
| <i>Culicidae</i> ... | 373 | <i>Phryneidae</i> ... | 368 |
| <i>Cyrtidae</i> ... | 384 | <i>Phycodromidae</i> ... | 410 |
| <i>Deuterophlebiidae</i> ... | — | <i>Phytomyzidae</i> ... | 420 |
| <i>Diopsidae</i> ... | 416 | <i>Piophilidae</i> ... | 414 |
| <i>Dixidae</i> ... | 376 | <i>Pipunculidae</i> ... | 391 |
| <i>Dolichopodidae</i> ... | 388 | <i>Platypezidae</i> ... | 391 |
| <i>Drosophilidae</i> ... | 418 | <i>Platystomidae</i> ... | 411 |
| <i>Dryomyzidae</i> ... | 410 | <i>Psilidae</i> ... | 415 |
| <i>Empidae</i> ... | 388 | <i>Psychodidae</i> ... | 376 |
| <i>Ephydriidae</i> ... | 417 | <i>Ptychopteridae</i> ... | 377 |
| <i>Erinnidae</i> ... | — | <i>Pyrgotidae</i> ... | 411 |
| <i>Fungivoridae</i> ... | 367 | <i>Rhagionidae</i> ... | 383 |
| <i>Geomyzidae</i> ... | 419 | <i>Rhopalomeridae</i> ... | 412 |
| <i>Helcomyzidae</i> ... | 410 | <i>Rhyphidae</i> ... | 368 |
| <i>Helomyzidae</i> ... | 410 | <i>Sapromyzidae</i> ... | 410 |
| <i>Heteroneuridae</i> ... | — | <i>Sarcophagidae</i> ... | 403 |
| <i>Hippoboscidae</i> ... | 420 | <i>Scatomyzidae</i> ... | — |
| <i>Itonididae</i> ... | 364 | <i>Scatophagidae</i> ... | — |
| <i>Lauxaniidae</i> ... | 410 | <i>Scatopsidae</i> ... | 368 |
| <i>Leptidae</i> ... | 383 | <i>Scenopinidae</i> ... | 384 |
| <i>Liriopidae</i> ... | 377 | <i>Sciaridae</i> ... | 367 |
| <i>Lonchaeidae</i> ... | 401 | <i>Sciomyzidae</i> ... | 401 |
| <i>Lonchopteridae</i> ... | 390 | <i>Sepsidae</i> ... | 414 |
| <i>Lycoridae</i> ... | 367 | <i>Simuliidae</i> ... | 368 |

Diptera (*contd.*):—

| | PAGE | | PAGE |
|------------------------------|---------|-----------------------------|---------|
| <i>Sphaeroceridae</i> ... | ... 410 | <i>Tethinidae</i> ... | ... 419 |
| <i>Stratiomyiidae</i> ... | ... 381 | <i>Thaumaleidae</i> ... | ... — |
| <i>Streblidae</i> ... | ... 421 | <i>Therevidae</i> ... | ... 383 |
| <i>Syrphidae</i> ... | ... 391 | <i>Tipulidae</i> ... | ... 377 |
| <i>Tabanidae</i> ... | ... 381 | <i>Trichoceridae</i> ... | ... 377 |
| <i>Tachinidae</i> ... | ... 393 | <i>Trixoscelidae</i> ... | ... 419 |
| <i>Tachiniscidae</i> ... | ... — | <i>Trypetidae</i> ... | ... 412 |
| <i>Tanyderidae</i> ... | ... — | <i>Tylidae</i> ... | ... 414 |
| <i>Tendipedidae</i> ... | ... — | <i>Xylophagidae</i> ... | ... — |
| <i>Termitoxeniidae</i> ... | ... 391 | | |
| Embioptera ... | ... 451 | | 452 |
| Ephemeroptera ... | ... 453 | | 455 |
| Fossils ... | ... 479 | | 483 |
| Hemiptera ... | ... 422 | | 445 |
| <i>Acanaloniidae</i> ... | ... — | <i>Dysodiidae</i> ... | ... 425 |
| <i>Acanthiidae</i> ... | ... 428 | <i>Eurybrachidae</i> ... | ... — |
| <i>Achilidae</i> ... | ... 431 | <i>Flatidae</i> ... | ... 432 |
| <i>Achilixiidae</i> ... | ... 431 | <i>Fulgoridae</i> ... | ... 430 |
| <i>Aëpophilidae</i> ... | ... — | <i>Gelastocoridae</i> ... | ... 428 |
| <i>Aleurodidae</i> ... | ... 441 | <i>Gerridae</i> ... | ... 428 |
| <i>Anthocoridae</i> ... | ... 427 | <i>Hebridae</i> ... | ... 426 |
| <i>Aphelocheiridae</i> ... | ... 429 | <i>Helotrephidae</i> ... | ... — |
| <i>Aphidae</i> ... | ... 438 | <i>Henicocephalidae</i> ... | ... — |
| <i>Aradidae</i> ... | ... 425 | <i>Hydrometridae</i> ... | ... 428 |
| <i>Belostomatidae</i> ... | ... 429 | <i>Isometopidae</i> ... | ... — |
| <i>Berytidae</i> ... | ... 425 | <i>Issidae</i> ... | ... 431 |
| <i>Capsidae</i> ... | ... 427 | <i>Jassidae</i> ... | ... 434 |
| <i>Ceratocombidae</i> ... | ... — | <i>Kinnaridae</i> ... | ... 430 |
| <i>Cercopidae</i> ... | ... 432 | <i>Leotichiidae</i> ... | ... — |
| <i>Chermidae</i> ... | ... 438 | <i>Leptopodidae</i> ... | ... — |
| <i>Cicadellidae</i> ... | ... 434 | <i>Lophopidae</i> ... | ... 431 |
| <i>Cicadidae</i> ... | ... 429 | <i>Lygaeidae</i> ... | ... 425 |
| <i>Cimicidae</i> ... | ... 426 | <i>Meenopliidae</i> ... | ... 430 |
| <i>Cixiidae</i> ... | ... 430 | <i>Membracidae</i> ... | ... 433 |
| <i>Coccidae</i> ... | ... 442 | <i>Mesoveliidae</i> ... | ... 426 |
| <i>Colobathristidae</i> ... | ... 425 | <i>Microphysidae</i> ... | ... — |
| <i>Coptosomatidae</i> ... | ... 423 | <i>Miridae</i> ... | ... 427 |
| <i>Coreidae</i> ... | ... 424 | <i>Myodochidae</i> ... | ... 425 |
| <i>Corixidae</i> ... | ... 429 | <i>Nabidae</i> ... | ... — |
| <i>Cryptostemmatidae</i> ... | ... 428 | <i>Naucoridae</i> ... | ... — |
| <i>Cydnidae</i> ... | ... 423 | <i>Neididae</i> ... | ... 425 |
| <i>Delphacidae</i> ... | ... 431 | <i>Nepidae</i> ... | ... 429 |
| <i>Derbidae</i> ... | ... 431 | <i>Notonectidae</i> ... | ... 429 |
| <i>Dictyopharidae</i> ... | ... 430 | <i>Ochteridae</i> ... | ... 428 |
| <i>Dipsocoridae</i> ... | ... 428 | <i>Peloriidiidae</i> ... | ... — |

Hemiptera (*contd.*):—

PAGE

PAGE

| | | | |
|-------------------|-----|--------------------------|-----|
| Pentatomidae ... | 423 | Saldidae ... | 428 |
| Phymatidae ... | — | Scytinopteridae ... | — |
| Piesmidae ... | 425 | Termitaphidae ... | — |
| Plataspidae ... | 423 | Tettigometridae ... | — |
| Pleidae ... | — | <i>Thyreocoridae</i> ... | 423 |
| Polycetenidae ... | — | Tingidae ... | 425 |
| Psyllidae ... | 438 | Tropiduchidae ... | 431 |
| Pyrrhocoridae ... | 425 | Urostylidae ... | 423 |
| Reduviidae ... | 426 | Veliidae ... | 428 |
| Ricaniidae ... | 432 | | |

Hymenoptera ... 267–302

| | | | |
|-----------------------------|-----|--------------------------------|-----|
| Agaonidae ... | 286 | Ichneumonidae ... | 291 |
| Agriotypidae ... | — | Masaridae ... | — |
| Aphelinidae ... | 288 | Miscogasteridae ... | 288 |
| Aphidiidae ... | 297 | Mutillidae ... | 275 |
| Apidae (<i>s. l.</i>) ... | 267 | Mymaridae ... | 290 |
| Belytidae ... | 286 | Pachylommatidae ... | — |
| Bethylidae ... | 275 | Pelecinidae ... | — |
| Braconidae ... | 297 | Perilampidae ... | — |
| Calliceratidae ... | 286 | Platygasteridae ... | 285 |
| <i>Callimomidae</i> ... | 287 | <i>Pompilidae</i> ... | 276 |
| <i>Ceraphronidae</i> ... | 286 | Proctotrupidae ... | — |
| Chalcididae ... | 287 | Psammocharidae ... | 276 |
| Chrysididae ... | 281 | Pteromalidae ... | 288 |
| Cleonymidae ... | 288 | Rhopalosomidae ... | — |
| Cynipidae ... | 291 | Sapygidae ... | — |
| Diapriidae ... | 286 | Scelionidae ... | 285 |
| Dryinidae ... | 275 | Scoliidae ... | 275 |
| Elasmidae ... | 289 | <i>Serphidae</i> ... | — |
| Encyrtidae ... | 288 | Sphegidae (<i>s. l.</i>) ... | 272 |
| Eucharidae ... | 287 | Stephanidae ... | — |
| Eulophidae ... | 289 | Tenthredinoidea ... | 298 |
| Eumenidae ... | 279 | Thynnidae ... | — |
| Eupelmidae ... | 288 | Torymidae ... | 287 |
| Eurytomidae ... | 287 | Trichogrammatidae ... | 291 |
| Evaniidae ... | 298 | Trigonalidae ... | 291 |
| Formicidae ... | 281 | Vespidae ... | 280 |

Isoptera ... 450–451

Lepidoptera ... 303–354

| | | | |
|-----------------------|-----|-----------------------|-----|
| Aegeriidae ... | 344 | <i>Arbelidae</i> ... | — |
| Agaristidae ... | 320 | Arctiidae ... | 319 |
| <i>Alucitidae</i> ... | 343 | <i>Baroniidae</i> ... | 313 |
| Amathusiidae ... | 306 | Bombycidae ... | 336 |
| Anthelidae ... | 327 | Brahmaeidae ... | 336 |
| Apoprogenidae ... | — | Brassolidae ... | 306 |

Lepidoptera (contd.) :—

PAGE

PAGE

| | | | | | |
|-----------------------|-----|-----|-----------------------------|-----|---------|
| Callidulidae ... | ... | — | Megalopygidae ... | ... | 338 |
| Castniidae ... | ... | — | Metarbelidae ... | ... | — |
| Ceratocampidae ... | ... | 336 | Micropterygidae (s. l.) ... | ... | 354 |
| Cercophanidae ... | ... | — | Mimallonidae ... | ... | 338 |
| Charideidae ... | ... | — | Morphidae ... | ... | 306 |
| Chrysopolomidae ... | ... | — | Neocastniidae ... | ... | — |
| Chrysotypidae ... | ... | — | Noctuidae ... | ... | 320 |
| Cochlidionidae ... | ... | 338 | Notodontidae ... | ... | 329 |
| Cocytidae ... | ... | — | Nymphalidae ... | ... | 306 |
| Cossidae ... | ... | 337 | Oenochromidae ... | ... | 330 |
| Cymatophoridae ... | ... | 328 | Oxytenidae ... | ... | — |
| Dalceridae ... | ... | — | Papilionidae ... | ... | 313 |
| Danaidae ... | ... | 305 | Parnassiidae ... | ... | 313 |
| Dioptidae ... | ... | — | Pericopidae ... | ... | 319 |
| Drepanidae ... | ... | 338 | Phalaenidae ... | ... | 320 |
| Endromidae ... | ... | 338 | Pieridae ... | ... | 312 |
| Epichnapterygidae ... | ... | — | Psychidae ... | ... | 337 |
| Epicopeidae ... | ... | 337 | Pterophoridae ... | ... | 343 |
| Epiplemidæ ... | ... | — | Pterothysanidae ... | ... | 335 |
| Epipyropidae ... | ... | — | Pyalidae ... | ... | 339 |
| Erycinidae ... | ... | 309 | Ratardidae ... | ... | — |
| Eupterotidae ... | ... | 328 | Riodinidae ... | ... | 309 |
| Geometridae ... | ... | 330 | Saturniidae ... | ... | 335 |
| Hepialidae ... | ... | 354 | Satyridae ... | ... | 305 |
| Hesperiidae ... | ... | 315 | Sematuridae ... | ... | — |
| Heterogynidae ... | ... | 338 | Sesiidae ... | ... | 344 |
| Hypoptidae ... | ... | — | Sphingidae ... | ... | 327 |
| Hypsiidae ... | ... | 319 | Syntomidae ... | ... | 318 |
| Indarbelidae ... | ... | — | Tascinidae ... | ... | — |
| Lacosomidae ... | ... | 338 | Teinopalpidae ... | ... | 313 |
| Lasiocampidae ... | ... | 337 | Teragridae ... | ... | — |
| Lemoniidae ... | ... | 336 | Thyatiridae ... | ... | 328 |
| Lepidarbelidae ... | ... | — | Thyrididae ... | ... | 338 |
| Libytheidae ... | ... | 309 | Tineidae (s. l.) ... | ... | 344 |
| Limacodidae ... | ... | 338 | Tortricidae (s. l.) ... | ... | 351 |
| Lycaenidae ... | ... | 309 | Uraniidae ... | ... | 337 |
| Lymantriidae ... | ... | 325 | Zygaenidae ... | ... | 338 |
| Mallophaga ... | ... | ... | ... | ... | 448-449 |
| Mecoptera ... | ... | ... | ... | ... | 363-364 |
| Neuroptera ... | ... | ... | ... | ... | 361-363 |
| Odonata ... | ... | ... | ... | ... | 455-460 |
| Orthoptera ... | ... | ... | ... | ... | 461-475 |
| Acrididae ... | ... | 469 | Gryllaeridae ... | ... | 467 |
| Blattidae ... | ... | 462 | Gryllidae ... | ... | 466 |

| Orthoptera (<i>contd.</i>):— | | | | PAGE | | PAGE | |
|--------------------------------|-----|-----|-----|-------------------|-----|---------|--|
| Grylloblattidae ... | ... | — | | Phasmidae ... | ... | 464 | |
| Mantidae ... | ... | 463 | | Tettigoniidae ... | ... | 467 | |
| <i>Paraneuroptera</i> ... | ... | ... | ... | ... | ... | 455-460 | |
| Plecoptera ... | ... | ... | ... | ... | ... | 452-453 | |
| <i>Plectoptera</i> ... | ... | ... | ... | ... | ... | 453-455 | |
| Protura ... | ... | ... | ... | ... | ... | 478-479 | |
| Psocoptera ... | ... | ... | ... | ... | ... | 449-450 | |
| Siphonaptera ... | ... | ... | ... | ... | ... | 421-422 | |
| Thysanoptera ... | ... | ... | ... | ... | ... | 445-448 | |
| Thysanura ... | ... | ... | ... | ... | ... | ... 475 | |
| Trichoptera... | ... | ... | ... | ... | ... | 355-360 | |
| Zoraptera ... | ... | ... | ... | ... | ... | ... — | |
| <hr/> | | | | | | | |
| <i>Errata</i> ... | ... | ... | ... | ... | ... | 483-488 | |

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II.—SUBJECT INDEX.

N.B.—The full reference may be obtained from "Titles" by means of the Author's name and number.

GENERAL.

Treatises.

BEI-BIENKO, The control of noxious Acrididae, **196**; BRUNDIN, history of Coleoptera of Torneträsk district, Swedish Lapland, **419**; ECKSTEIN, Microlepidoptera of Germany, **813**; FOLSOM & WARDLE, Entomology with special reference to its ecological aspects, **956**; GUSEV & RIMSKY-KORSAKOV, Key to injurious insects of forest and ornamental shrubs of European Russia, **1173**; HANDLIRSCH, Handbuch der Entomologie, III, **1190**; HEYNE & TASCHENBERG, Die exotischen Käfer in Wort und Bild, **1330**; HINE ET AL., Natural history of Hitchin region, **1342**; IMMS, A general textbook of Entomology, 3rd edn., **1459**; KARNY, Biology of aquatic insects, **1579**; KOFOLD ET AL., Termites and termite control, **1671**; PLATH, Bumblebees and their ways, **2387**; RAU, Jungle bees and wasps of Barro Colorado I., **2481**; ROBERT, Les Papillons dans la nature, **2549**; RONCORONI, Pianta e insetti, **2573**; SILVESTRI, Compendium of Applied Entomology, **2819**; WIGGLESWORTH, Insect Physiology, **3293**.

Historical.

BIRDSONG, Insects of the Bible, **279**; BURESCH, Jubilee of the Bulgarian Entomological Society—brief history, **447**; COCKERELL, The Entomological Society of London, **602**; ESSIG, historical background of entomology in relation to early development of agriculture in California, **871**; FRASER, historical notes on bee-keeping from 1130 to 1870, **974**; HASE, brief accounts of famous old German Entomologists, **1219**; HOWARD, beginnings of the Entomological Society of Washington, **1417**; HULLS, experiments with pupae in early 18th century, Entomologist **67** pp. 67–68; KÖRNER, mention of bees in Homer and Hesiod, **1691**, **1692**; POULTON, William Jones of Chelsea, **2419**; ROHWER, changes in Entomological Society of Washington in last quarter of a century, **2565**; ROSS, short biographies of famous

Coleopterists, **2584**; VENMANS, fly and beetle remains from Roman times, in Holland, **3169**.

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Notices of publications on animal ecology, *J. Anim. Ecol.* **3** pp. 117–127; bibliography of literature on Neotropical fauna of general interest, *Rev. Ent.*, Rio de Janeiro **4** pp. 122–138, 279–290, 417–426, 519–534; list of publications on Indian Entomology in 1930, 1931 and 1932, **6**; CRESSON, Entomological literature, **668**; GRIFFIN contents of parts and dates of appearance of "Moore (F.), Lepidoptera of Ceylon," 3 vols. 1880–1887, **1144**; HEDICKE, list of publications on insect fauna of Mark Brandenburg, **1249**; HEPP, list of papers on Protura, Collembola, Ephemeroptera, Odonata, Orthoptera, Corrodentia, Thysanoptera, Heteroptera, Homoptera, Aphidina, Neuroptera, Panorpidae, Trichoptera, Aphaniptera, Strepsiptera, published in *Ent. Jb.* 1–43 (1892–1934), **1296**; HIGGINS, on dates of Hübner's plates, **1334**; HOBBY, entomological notes and papers in serial publications of local scientific societies in the Br. Isles, pt. 2, **1361**; MACGILLAVRY, Cuban entomological literature, **1883**; OUCHI, bibliography of Chinese insects, **2261**; TREMOLERAS, on dates of publication of the Carabidae of the "Voyage" of d'Orbigny, **3099**; WADE, *Mayetiola* (*Phytophaga*) *destructor* (Dipt. Cecid.), **3202**; WOLF, literature of cavernicolous insects, **3318a**.—Lists of works published by: J. M. ALDRICH, Melander, *Psyche* **41** pp. 137–149; J. CULOT, *Pictet, Mitt. schweiz. ent. Ges.* **16** pp. 137–139; P. H. DETTMER, *Brotéria* **30** pp. 7–9; A. FIORI, *Grandi, Mem. Soc. ent. ital.* **12** pp. 210–214; F. W. GODING, Olsen, *J. N.Y. Ent. Soc.* **42** pp. 445–449; FR. GUDMANN, Kryger, *Ent. Medd.* **18** p. 420; R. HEINRICH (Lepidopterous papers, 1909–1932), *Callies, Int. ent. Z.* **28** pp. 179–180; J. DE JOANNIS, *Le Cerf*, **1759** and *Ann. Soc. ent. Fr.* **103** pp. 191–197; C. NODIER, *Portevin, Terre et la Vie*, Paris **4** p. 370; J. T. OUDEMANS, *De Meijere, Tijdschr. Ent.* **77** pp. 173–174; E. N. PAVLOVSKIĖ (1906–1931), *Kostnilev, Za sotz. Zdravookhran. Uzbek.*, Tashkent **11** 1932 pp. 7–18; N. PLAVILSTSHIKOV, Špaček, **2870**, **2871**; C. RIBBE, Heller, *Iris* **48** pp. 141–143; F. M. ROOT

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Nomenclature.

On publication of the reports on generic names of British insects, 4; AGUAYO, translation of International Rules on Zoological Nomenclature into Spanish, 17; CHOPE, popular insect names in Devonshire, 563; CRESSON, terminology of types, 669; FIELD, on the naming of "transition forms" in Lepidoptera, 922; FLETCHER, on various misspelt names, etc., 938; FORBES, on namable, potentially namable and unnamable forms, 958; IONESCO, on insufficient descriptions, 1470; KING & TAO, some old Chinese names for Aphids, 1625; POULTON, HOBBY, HEMMING & EDELSTEN, English names regularly used for British Lep. up to end of 18th Century, 2419; RISBEC, insufficient descriptions, 2548; SAALAS, Finnish names of insects, 2631.

Technique, Methods.

ALBERS, method of investigating genitalia in Lepidoptera, 19; ALEXANDROV, method of testing permeability of chitin of larvae of Diptera, 24; ALTENBURG, *Drosophila* (Dipt.), method of etherising in mass, 54; BERTRAND, collecting, breeding and preserving aquatic Coleopterous larvae, 259; BETTEN, collection, mounting and preservation of Trichoptera, 261; BEYERLE, method of observing flowing blood in Arthropods, 263; BRADLEY, method of shipping mosquito eggs, 363; BUCKNER, improved technique for mounting mosquito larvae, 438; BUXTON, separation of lice from hair, wool or feathers, 464; CETON, a new relaxing box for Lepidoptera, 516; COLAS, the use of a sifter for collecting, 607; COOGLE, electrocution a new aid in the preparation of mosquito mounts, 633; DA COSTA LIMA, mounting terminalia of mosquitos, 652; ECKSTEIN, collecting and mounting Micro-

lepidoptera, 813; ESTRADA, technique and apparatus for catching fleas in debris, 873; FULTON & CHAMBERLIN, *Eutettix tenella* (Hem. Jassid.), improved method of feeding artificially, 1005; GIBBINS, method of rearing *Simulium* (Dipt.), 1069; GOTTHARDT, preparation of genitalia of Lepidoptera, 1115; HARRISON & USINGER, simple device for blowing insect larvae, 1215; HARTIG, new method for keeping insects fresh, 1216; HEPWORTH, method of photographing multiple images with the compound eye of *Dytiscus* (Col.), Watson's Microscope Rec., London 31 pp. 8-9, 3 figs.; HERING, methods and technique of examination of genitalia, 1300; HERTER, new apparatus for recording temperature reactions, 1319; HOSKINS & CRAIG, insect olfactometer, 1411; JAKUES, method of indexing geographic and seasonal distribution of insects, 1504; LEVEREAULT, iron haematoxylin for differentiation of sclerites from membranous areas, 1792; MAGNAN & GIRERD, method of measuring aerodynamic characters of Lepidoptera, 1898; MANEVAL, on rearing of mining insects, 1919; MASON, shipping, feeding and rearing of fruit-fly parasites, 1968; MEYER, a simple, home-made thermohygrostat, 2029; NICHOLAS, method of making transfer pictures of butterfly wings, 2178; NIESCHULZ & DU TOIT, handling mosquitos for experimental purposes under S. African conditions, 2192; PETERSON, a manual of entomological equipment and methods, pt. 1, 2338; PUS-SARD, *Bombyx mori* (Lep.), method of detecting larvae with defective glands, 2459; REHN, new type steel case for entomological collections, 2507; ROSS, collection and preservation of insects, 2585; SAKIMURA & CARTER, artificial feeding of Thysanoptera, 2641; KILGOUR, preparing microscopic sections of eggs, 2758; SINTON, instructions for collecting and forwarding mosquitos, 2827; SPEYER, collection and preservation of thrips, 2879; STILES, normal butyl alcohol technique for insect tissues, 2916; DE LA TORRE-BUENO, points for mounting small insects, glue for mounting on points, locality labels, 3072; TOTZE, artificial feeding of blood-sucking insects, 3077; TRÄGÄRDH & FORSSLUND, collecting soil fauna, 3086; TRAJNA, method of making simple stereoscope for insect illustrations, 3089; VALENTINE, preparation

and mounting of Coleoptera, 3141; VOLZ, method of sifting small insects from soil, 3188; WALANDOUW, new method of obtaining specimens of *Anopheles* with extended wings, 3211; WEVER & BRAY, new method for study of hearing in insects, 3272; YEAGER & HAGER, method of isolating the heart and Malpighian tube of *Periplaneta orientalis* (Orth.), 3355; YEAGER & SWAIN, an entomotograph, for recording the appendicular or locomotor activity of insects, 3357.

Collections.

ALDRICH, 50,000 types of insects in the U.S. Nat. Mus., Ent. News 45 p. 8; KOUŘIL, Zoufal's collection of Coleoptera given to the Moravian provincial museum in Brunn, 1710; MORSE, insect collections of a public museum, aims of a collection, and types of insects in them, 2089; ROSS, location of collections of famous Coleopterists, 2584; ROYER, Robineau-Desvoidy's collection of Diptera in Mus. nat. Hist. nat. Paris, 2612.

Miscellaneous.

CARPENTER, insects as material for study, 496; FELT, classifying symbols for orders and families of insects, 908; HEIKERTINGER, how a manuscript should be prepared, 1252, 1254; HOFFMANN, status of entomology in Kwangtung Province with suggestions for procedure, 1369; KENNEDY & LANDIS, short outline of editorial policies, especially in connection with Ann. ent. Soc. Amer., 1603; PORTEVIN, insects for human consumption, 2405.

MORPHOLOGY.

General Anatomy.

ANCONA, *Aegiale hesperias* (Lep.), 58; ANDERSEN, *Calandra granaria* (Col. Curc.), 64; AUER, grasshoppers (Orth. Acrid.), 103; BEIER, German Orthoptera, 199; BENJAMIN, N. American Trypetidae (Dipt.), 217; BRUCH, *Acanthostichus laticornis* var. *obscuridens*, ♀ (Hym. Form.), 410;

CAÑAMARES, *Anopheles maculipennis* (Dipt. Culic.), 480; CAPPE DE BAILLON, FAYRELLE & VICHET, *Baculum artemis* (Orth. Phasm.), 481; CAPRA, *Tachinus manvuli* (Col. Staph.), 486; CORRADETTI, Nycteribiidae, 642; FERNALD, *Spheg* (Hym.), 910; GEORGE, *Melipona iridipennis* (Hym. Apid.), 1057; HANDSCHIN, *Spalangia sundaica, orientalis* (Hym. Pterom.), 1193a; HEINRICH, Ichneumoninae (Hym.), 1256; HENNIG, *Calycopteryx moseleyi* (Dipt. Tylid.), 1289; HESSE, *Telmatogelton minor* (Dipt. Chiron.), 1323; HOFFMANN, *Hygia opaca* (Hem. Coreid), 1373; IOAKIMOV, *Acantholyda erythrocephala* (Hym. Tenthred.), 1462; ISAEV, *Phlebotomus* (Dipt. Psychod.), 1473; ISHIKAWA, *Tricholyga sorbillans* (Dipt. Tach.), 1477; KAMIYA, *Dendrolimus spectabilis* (Lep.), 1565; KOFOID et al., Termites, 1671; KOHLER, *Niptus hololeucus* (Col. Ptinid.), 1672; KUTTER, *Sactogaster pisi* (Hym. Platygast.), 1736; LIEU, *Lycorma delicatula*, (Hem. Fulg.), 1816; MADLE, *Aphodius rufipes* (Col.), 1894; MADWAR, *Bolitophila hybrida, Pnyxia scabiei* (Dipt. Mycet.), 1895, 1896; MARCHAL, *Eriosoma* spp., *Tetraneura* spp., *Neorhizobius ulmiphilus* (Hem. Aphid.), 1931; MARTYNOV, Trichoptera, 1961; MELIS, *Liothrips oleae* (Thysanopt.), 2005; MORETTI, Chironomids (Dipt.), 2079; PARKER & SMITH, *Eoxenos laboulbeni* (Col. Stylop.), 2290; PASPALEV, *Capitophorus tetrahodus* (Hem. Aphid.), 2297; RAYNAL & GASCHEN, *Phlebotomus barraudi, bailyi, 2487*; RIPPSTEIN, *Theobaldia maccrackenae dugesi* (Dipt. Culic.), 2547; RUMYANTZEV, *Lithocolletis populifoliella* (Lep. Tinoid.), 2619; TAKANO, *Ceratovacuna lanigera* (Hem. Aphid.), 2994; THIEM & GERNECK, *Aspidiotus* spp. (Hem. Cocc.), German spp., 3034, 3035; VAN HEERDEN, *Nezara viridula* (Hem. Pent.), 3152; VÖHRINGER, *Galleria mellonella* (Lep. Pyral.), 3187; WAGNER, *Otenopsyllus segnis* (Siphonapt.), 3203; ZIMIN, *Mikia magnifica* (Dipt. Tach.), 3394.

Exoskeleton.

STICKNEY, *Phoenicococcus marlatti* and allied Coccids (Hem.), 2914; TAUBER, distribution of chitin in insects, 3010; WAGNER, intersegmental flaps of segments in male fleas, 3208.

Head.

BUGNION, *Pelania mauritanica* (Col. Lampyr.), 439a; CHANG, *Oedaleus marmoratus* (Orth. Acrid.), 520; CLARK, *Acroneuria evoluta* (Plecopt.), 579; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; FORBES, *Agrotis ypsilon* (Lep. Noct.), Dyar's law, 959; HELSON, *Stenoperla prasina* (Plecopt.), 1268; JOBLING, *Nycteribosca* (Dipt. Streb.), 1520; KÉLER, *Lymantria dispar* (Lep.), not entirely in agreement with Dyar's law, 1596; KUTTER, *Pirene graminea* (Hym. Miscogast.), 1736; LEW, Odonata, 1794; LEWIS, *Glossina*, movements of ptilinum, 1797; MEYER, *Phyllotreta vittula* (Col.), 2028; OTTER, *Lestodiplosis alvei* (Dipt. Cecid.), 2260; PARKER, Tenthredinids, 2289; SERVADEI, *Arge pagana* (Hym. Tenth.), 2795; STEINWEHR, *Xenodorus janus* (Col. Dynast.), horn, Ent. Bl. 30 p. 19; STICKNEY, *Parlatoria blanchardi* (Hem. Cocc.), 2915; THOMPSON, Tachinid parasites of woodlice, 3050; TILLYARD, *Atalophlebia australis* (Ephem.), 3057; WAGNER, *Plocopsylla enderleini* (Siphonapt.), 3205; WILSON, *Chrysochus auratus* (Col. Chrysom.), 3309.

Eyes.

BERNARD, *Notonecta maculata* (Hem.), 247; BUSSELMANN, *Ephestia kühniella* (Lep. Pyral.), structure of ocelli in larva, 460; CHANG, *Oedaleus marmoratus* (Orth. Acrid.), 520; COLLINS, *Cydia pomonella* (Lep. Tortric.), iris-pigment, 626; LEW, compound eye of Odonata, 1794; STICKNEY, *Parlatoria blanchardi* (Hem. Cocc.), 2915; UMBACH, *Ephestia kühniella* (Lep. Pyral.), 3129; WEBER, Aleurodinae (Hem.), compound eyes, 3242; YAMANŪTI, *Sphodromantis bioculata* (Orth. Mantid.), number and size of facets, 3341.

Antennae.

KJELLGREN in BETTEN, Trichoptera, 261; CHANG, *Oedaleus marmoratus* (Orth. Acrid.), 520; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; JONES & FARQUHAR, *Fumea casta* (Lep. Psych.), 1533; LEW, Odonata, 1794; OCHMANN, combs and bristles on antennae in Lepidoptera, 2222; STICKNEY, *Phoenicococcus marlatti* and allied Coccids, 2914, *Parlatoria blan-*

chardi (Hem. Cocc.), 2915; THOMPSON, Tachinid parasites of woodlice, 3050; VAN HEERDEN, *Nezara viridula* (Hem. Pent.), measurements of segments of antennae in nymphs and adult, 3152; WARNEKE, scent organs on antennae in Lamellicorns (Col.), 3226; WIGGLESWORTH & GILLET, *Rhodnius prolixus* (Hem. Reduv.), antennae and their sensilla, 3295.

Mouth-parts.

BLACKWELDER, protheca or mandibular appendage in Coleoptera, 284; BUGNION, *Pelania mauritanica* (Col. Lampyr.), 439a; BUICKOV, *Coprophilus pennifer*, *Heterotops praeivius* (Col. Staph.), 442; CHANG, *Oedaleus marmoratus* (Orth. Acrid.), 520; CLEVELAND, *Cryptocercus punctulatus* (Orth. Blatt.), 584; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; FULLER, *Sciadocera rufomaculata* (Dipt. Phor.), bucco-pharyngeal armature, 1001, *Actina incisuralis* (Dipt. Strat.), 1002; HELSON, *Stenoperla prasina* (Plecopt.), 1268; HERIOT, renewal of stylets in each stadium in sucking insects, 1316; HOBBS, Anthomyiidae, Cordyluridae, 1357; KÄSTNER, *Raphidia notata* (Neur.), 1584; KONTKANEN, *Acanthocinus aedilis* (Col. Lamid.), 1690; McDougall, Elateridae, 1874; MÜLLER, Harpalinae (Col. Carab.), 2111; RAYNAL & GASCHEN, *Phlebotomus stantoni* (Dipt. Psychod.), 2487; SCHNEIDER, water-bugs (Hem.), 2711; SEN, *Corizoneura longirostris* (Dipt. Taban.), 2791; STICKNEY, *Phoenicococcus marlatti* and allied Coccids (Hem.), 2914; THOMPSON, Tachinid parasites of woodlice, 3050; THORPE, *Pantophthalmus tabaninus* (Dipt.), 3054; TILLYARD, *Atalophlebia australis* (Ephem.), 3057; TOKUNAGA, *Forcipomyia crinume* (Dipt. Ceratop.), 3065.

Thorax.

BETTEN, Trichoptera, 261; BRINDLEY, Heteroptera, metasternum and pleurae, 386; CLARK, *Acroneuria evoluta* (Plecopt.), 579; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; GOIDANICH, *Menozzia formicaria* (Hym. Brac.), 1105; HELSON, *Stenoperla prasina* (Plecopt.), 1268; JOBLING, *Nycteribosca* (Dipt. Streb.), 1520; KUTTER, *Pirene graminea* (Hym. Miscogast.), 1736; MACGILL, *Anagrus*

atomus (Hym. Mymar.), 1884; SERVADEI, *Arge pagana* (Hym. Tenth.), 2795; TILLYARD, *Atalophlebia australis* (Ephem.), 3057; WILSON, *Chrysoschus auratus* (Col. Chrysom.), 3309.

Wings.

BARNARD, micropterism, apterism in Plecoptera, 162; BETTEN, Trichoptera, 261; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; EDWARDS, *Simulium feuerborni* (Dipt.), larval wing, 817; GOIDANICH, *Menozzia formicaria* (Hym. Brac.), 1105; GREENE, *Anastrepha* (Dipt. Trypet.), 1140; HEITMANN, correlation in development of wings and tympanal organs, 1260; HELSON, *Stenoperla prasina* (Plecopt.), 1268; JOBLING, *Nycteribosca* (Dipt. Streb.), 1520; LING, *Glossosoma americanum* (Trichop.), 1832; MUNZ, venation of Zygoptera (Odon.), 2119; PIERRE, Tipulidae, 2383; SANTSCHI, origin of cubital vein of Formicids, 2646; STICKNEY, *Parlatoria blanchardi* (Hem. Cocc.), 2915; TILLYARD, *Atalophlebia australis* (Ephem.), 3057; TULLOCH, *Diacamma* (Hym. Form.), vestigial wings, 3106; WILSON, *Chrysoschus auratus* (Col. Chrysom.), venation, 3309; ZACWILICHOWSKI, *Phyllodromia*, *Stauroderus* (Orth.), *Tipula*, *Oxypterum* (Dipt.), Trichoptera, *Apis*, innervation and sense-organs, 3363-3370.

Legs.

CLEVELAND, *Cryptocercus punctulatus* (Orth. Blatt.), 584; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; VAN EMDEN, Polyphaga larvae have no distinct tarsus, 839; HAYES & KEARNS, pretarsus (articularis) in Col., 1233; JOBLING, *Nycteribosca* (Dipt. Streb.), 1520; JONES & FARQUHAR, *Fumea casta* (Lep. Psych.), 1533; OCHMANN, combs and bristles on legs in Lepidoptera, 2222; STICKNEY, *Parlatoria blanchardi*, *Phoenicococcus marlatti* (Hem. Cocc.), 2914, 2915; WILSON, *Chrysoschus auratus* (Col. Chrysom.), 3309.

Abdomen.

BETTEN, Trichoptera, 261; CLARK, *Acroneuria evoluta* (Plecopt.), 579; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; ELTRINGHAM, *Spilosoma menthastris* (Lep.), brush-organs of ♂, 835; GOIDANICH, *Aphidius*

janinii, *Menozzia formicaria* (Hym. Brac.), 1105; HANNA, *Euchalcidia caryobori* (Hym.), 1199; HAWKINS, *Lithophane socia* (Lep.), spiral segmentation, Proc. R. ent. Soc. Lond. 9 p. 60; HELSON, *Stenoperla prasina* (Plecopt.), 1268; HUTCHINSON, Lygaeidae (Hem.), position of abdominal spiracles, 1445; JACZEWSKI, Ochteridae (Hem.), abdominal segments, 1485; JOBLING, *Nycteribosca* (Dipt. Streb.), 1520; KÄSTNER, *Raphidia notata* (Neur.), last abdominal segments, 1584; KUTTER, *Pirene graminea* (Hym. Miscogast.), 1736; MACGILL, *Anagrus atomus* (Hym. Mymar.), 1884; MAKHOTIN, 9th abdominal segment in male Odonata, 1903; MERGELSBERG, physogastry, 2019; MEYER, *Phylloreta vittula* (Col. Haltic.), 2028; SERVADEI, *Arge pagana* (Hym. Tenth.), 2795, *Hylemyia servadeii* (Dipt. Anthom.), spiracles, 2796; STICKNEY, *Phoenicococcus marlatti* and allied Coccids (Hem.), anal segment, 2914; TILLYARD, *Atalophlebia australis* (Ephem.), 3057; TOKUNAGA, *Forcipomyia crinume* (Dipt. Ceratop.), 3065; WILSON, *Chrysoschus auratus* (Col. Chrysom.), 3309.

Stridulatory Organs.

DINGLER, *Crioceris duodecimpunctata*, *asparagi* (Col.), 749; GEORGE, *Empoasca devastans* (Hem. Jassid.), chitinous plates on second ventrite in ♂ possibly sound-producing organs, 1055; LINGERKEN, legs as stridulatory organs in beetles, 1773; MAROU, some Cerambycidae and Scarabaeidae (Col.), 1938, 1942.

Scales and Hairs.

FERRIS, of insects in general, 917; GRIMSHAW, chaetotaxy of palaearctic Diptera, 1145; STICKNEY, *Parlatoria blanchardi* (Hem. Cocc.), 2915.

Sense Organs.

DEBAISIEUX, scolopidia in feet of Neuroptera, 722, scolopidial organs in tibia in ants, 723; DEBAUCHE, Johnston's organ in antennae in Trichoptera, 724; HEITMANN, tympanal organs in Lepidoptera incapable of flight, 1260; MCINDOO, blow-flies, chemoreceptors, 1889; WARNKE, scent organs on antennae in Lamellicorns (Col.), 3226; ZACWILICHOWSKI, *Phyllodromia*, *Stauroderus* (Orth.), *Tipula*, *Oxypterum* (Dipt.), Trichoptera, *Apis*, sense-organs in wings, 3363-3370.

Alimentary System.

BALFOUR-BROWNE, proventriculus in Dytiscidae, 129; BRUBAKER, *Penthe pimelia* (Col. Melandr.), 405; BUTT, origin of peritrophic membrane in *Sciara* and *Apis mellifica*, 462; CASTELNUOVO, *Carausius morosus* (Orth. Phasm.), digestive tract, 507; CLEVELAND, *Cryptocercus punctulatus* (Orth. Blatt.), 584; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728; DINGLER, *Platyparea poeciloptera* (Dipt. Trypet.), 747; FYG, *Apis mellifica* (Hym.), intestine, 1011; GRAHAM-SMITH, *Calliphora erythrocephala* (Dipt.), 1125; HANNA, *Euchalcidia caryobori* (Hym.), 1199; HELSON, *Stenoperla prasina* (Plecopt.), 1268; KOBAYASHI, Trypetidae, 1662; KUNTZE, Ichneumonid larvae, 1733; LIEU, *Lycorma delicatula* (Hem. Fulg.), 1816; MACHIDA, *Bombyx mori*, epithelium of mid-gut of larva, 1885; MANSOUR, types of adult mid-gut formation in the Coleoptera, 1927; NEGL, *Laccifer lacca* (Hem. Cocc.), 2164; PARKER, Tenthredinidae, 2289; PESSON, *Pseudococcus adonidum* (Hem. Coccid.), 2334; THOMPSON, Tachinid parasites of woodlice, 3050; WILSON, *Chrysochus auratus* (Col. Chrysom.), 3309; YAO NAN, *Bombyx mori* (Lep.), 3345.

Respiratory System.

ALSTERBERG, limnophilous, Syrphid larvae (Dipt.), 53; BREHM, aquatic insect larvae, 376; CAMERON, *Haematopota pluvialis* (Dipt. Taban.), tracheal system, 472; DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728; FULLER, *Actina incisuralis* (Dipt. Strat.), 1002; KUSTER, *Stratiomyia*, *Odontomyia* (Dipt.), 1735; PARKER, Tenthredinidae, 2289.

Reproductive System.

Coleoptera: BALFOUR-BROWNE, *Deronectes* spp. (Dytisc.), aedeagus, 128; PALM, *Cryptophagus*, 407; DINGLER, *Crioceris duodecimpunctata*, asparagus, 749; HODSON, *Tribolium confusum*, origin and differentiation, 1363; KOHLER, *Niptus hololeucus* (Ptinid.), ♂ and ♀ genitalia, 1672; LÜHMANN, *Galerucella viburni*, 1859; PARKIN, *Lyctus* spp., 2292; WILSON, *Chrysochus auratus* (Chrysom.), 3309; WÜSTHOFF, *Philonthus* (Staph.), forceps of Centr. European spp., 3336. — *Hymenoptera*:

ABBOTT, *Megarhyssa lunator* (Ichn.), ovarioles, ovipositor, 9, 10; BECK, male genitalia of bees, 193; FYG, *Apis mellifica*, genitalia of queen, 1011; HACHLER, *Arge* spp., *Schizocera* spp. (Tenthred.), ovipositor sheath, 1181; HANNA, *Euchalcidia caryobori* (Hym.), 1199; KOMAROV & ALPATOV, *Apis mellifica*, variation in reproductive system of queens, 1680, 1681; KUTTER, *Pirene graminea* (Hym. Miscogast.), 1736; MACGILL, *Anagrus atomus* (Hym. Mymar.), 1884; OERTEL, *Apis mellifica*, variation in number of ovaries, 2228. — *Lepidoptera*: BOUVIER, *Automeris* spp. (Saturn.), male genitalia, 357; BRYK, *Parnassius* spp. (Papil.), sphragis, 427; CHAPPELL, New Zealand Pterophoridae, Oecophoridae, Nolidae, 528; HERING, Lepidoptera, 1301; HEWER, *Zygaena*, mechanism of copulation, 1325; JONES & FARQUHAR, *Fumea casta* (Psych.), ovipositor, male genitalia, 1533; ROEPKE, *Papilio* spp., sphragis, 2556; SOKOLOV, *Chrysophanus* (Lycaen.), ♂ genitalia of Centr. European spp., 2861; TATZER, Malayan *Papilio* spp., sphragis, 3009; WEIDNER, female Lepidoptera, 3254; WONG & LI, *Bombyx mori* (Lep.), development of genitalia, 3330; YASUMATSU & TORIKATA, *Papilio*, male genital appendages in Japanese, Korean and Formosan spp., 3354. — *Diptera*: COUDERC, *Perrisia affinis* (Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Trypet.), 747; DOWDEN, *Zenillia libatrix* (Tach.), 774; GREENE, *Anastrepha* (Trypet.), length of ovipositor, 1140; HENNIG, copulatory apparatus in Tylidae, 1288; KOBAYASHI, Trypetidae, 1662; PATTON, *Glossina*, male and female, 2301; PATTON & CUSHING, Calliphoridae, 2302; PATTON & GIBBINS, metallic Muscini, 2303; POMERANTZEV, *Culicoides* (Ceratap.), 2399; RAYNAL & GASCHEN, *Phlebotomus stantoni* (Psychod.), 2487; SEN, *Corizoneura longirostris* (Taban.), 2791; THORPE, *Pantophthalmus tabaninus*, 3054. — *Hemiptera*: BALDUF, *Empoasca* spp. (Jass.), taxonomic value of ovipositor, 124; CHINA & MYERS, *Tomaspis* (Cercop.), 553; JACZEWSKI, Ochteridae, 1485; PASPALOV, *Aphis rosae*, *Siphonophora rosarum* (Aphid.), ovaries and oocytes in parthenogenetic generations, 2296; PAYNE, *Leptocoris trivittatus* (Coreid.), male genitalia, 2312; YOTHERS, *Stictoccephala inermis*, *Ceresa basalis*, *C. bubalis* (Membr.), ovipositors, 3360. —

Plecoptera: BARNARD, *S. African* spp., 162; CLARK, *Acroneuria evoluta*, 579; HELSON, *Stenoperla prasina*, 1268.—*Orthoptera*: CHOPARD, *Phyllium bioculatum* (Orth. Phasm.), spermatophor, 559; CLEVELAND, *Cryptocercus punctulatus* (Blatt.), 584; ELSE, *Melanoplus differentialis* (Acrid.), male genitalia, 834; NELSEN, *Melanoplus differentialis* (Acrid.), ovary, 2168; VARDE, glandular protrusible vesicles on gonopore in ♀ Acridinae, 3159.

Nervous System.

BUGNION, *Pelania mauritanica* (Col. Lampyr.), 439a; CAMERON, *Haematopota pluvialis* (Dipt. Taban.), 472; DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728; HELSON, *Stenoperla prasina* (Plecopt.), 1268; KOBAYASHI, Trypetidae, 1662; KOFOID et al., termites (Isopt.), 1671; NEGI, *Laccifer lacca* (Hem. Cocc.), 2164; THOMPSON, Tachinid parasites of woodlice, 3050.

Excretory System.

ARGESEANU & FEYEL, Malpighian tubes of *Dytiscus* (Col.), 79; CONET, histology of Malpighian tubes in cryptonephrid Coleoptera, 634; GRAHAM-SMITH, *Calliphora erythrocephala* (Dipt.), musculature and movements of Malpighian tubes, 1125; STAMMER, Malpighian tubes of Coleoptera, 1551; KORNHAUSER, *Anisolabis* (Dermapt.), Malpighian tubes, 1693; LIEU, *Lycorma delicatula* (Hem. Fulg.), 1816; PESSON, *Pseudococcus adonidum* (Hem. Coccid.), Malpighian tubes, 2334; POLL, *Hylecoetus dermestoides* (Col.), Malpighian tubes, 2398; STAMMER, Malpighian tubes in Coleoptera, 2892; THORPE, *Pantophthalmus tabaninus* (Dipt.), 3054; YAO NAN, *Bombyx mori* (Lep.), Malpighian tubes, 3345.

Circulatory System.

DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728; HELSON, *Stenoperla prasina* (Plecopt.), 1268; THOMPSON, Tachinid parasites of woodlice, 3050.

Histology.

RUSSELMANN, *Ephestia künniella* (Lep. Pylal), histology of eyes in larva, 460; CASTELNUOVO, *Carausius morosus* (Orth. Phasm.), histology of alimentary canal, 507; CONET, histology of Malpighian tubes in cryptonephrid Coleoptera, 634; CREMER, his-

tology of flight muscles in imago and larva in Odonata, 666; KOFOID et al., digestive tract in termites (Isopt.), 1671; PESSON, *Pseudococcus adonidum* (Hem. Coccid.), intestinal tract, 2334; YAO NAN, *Bombyx mori* (Lep.), Malpighian tubes, 3345.

Myology.

ABBOTT, *Megarhyssa lunator* (Hym.), muscles operating ovipositor, 10; BALDWIN & NEEDHAM, phosphorus distribution in resting fly muscle, 125; CREMER, flight muscles in imago and larva in Odonata, 666; DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728; GRAHAM-SMITH, *Calliphora erythrocephala* (Dipt.), musculature of Malpighian tubes, 1125; HANNA, *Euchalcidia caryobori* (Hym.), sting muscles and muscular system, 1199; NEGI, adult ♀ of *Laccifer lacca* (Hem. Cocc.), 2165; THOMPSON, Tachinid parasites of woodlice, 3050.

Fat-body.

KUNTZE, Ichneumonid larvae, 1733; BARNES, *Dizygomyza barnesi* (Dipt. Agromyz.), 164; BUGNION, *Pelania mauritanica* (Col. Lampyr.), 439a; DE LEON, *Coeloides dendroctoni* (Hym. Brac.), 728.

Glands.

AHRENS, homology in accessory sex-glands in insects, 18; BATES, peristigmal gland cells of Trypetid larvae (Dipt.), 178; ELTRINGHAM, some glands in Trichoptera, 836; GRASSÉ & LESPERON, *Bombyx mori*, silk glands, 1131; HANNA, *Euchalcidia caryobori* (Hym.), sting glands, 1199; HELSON, *Stenoperla prasina* (Plecopt.), secretory glands of gut, 1268; KUNTZE, salivary glands of Ichneumonid larvae, 1733; MADLE, *Aphodius rufipes* (Col.), salivary glands in adult, 1894; METZ & GAY, *Sciara* (Dipt.) structure of chromosomes of salivary glands, 2026, 2027; NEGI, *Laccifer lacca* (Hem. Cocc.), 2164, 2165; PAINTER, *Drosophila melanogaster*, structure of x-chromosomes in salivary glands, 2272; PARKER, Tenthredinidae, 2289; PESSON, *Pseudococcus adonidum* (Hem. Coccid.), salivary glands, 2334; PFLUGFELDER, spinning gland in Tenthredinid larvae (Hym.), 2351; SCHULZE, dermal glands in Odonata, 2738, 2739; ŠULC, wax glands in male *Lecanium* (Hem. Cocc.),

2949; THORPE, *Pantophthalmus tabaninus* (Dipt.), 3054; VARDE, odoriferous glands on gonopore in ♀ Acridinae (Orth.), 3159.

Pupae.

Coleoptera: ELMORE, DAVIS & CAMPBELL, *Anthonomus eugenii* (Curc.), 833; ESSIG & MICHELBACHER, *Hypera postica* (Curc.), 872; GRANDI, *Apion columbinum* (Curc.), 1126; HANDSCHIN, *Aleochara handschini* (Staph.), 1193a; HERFS, *Anthrenus fasciatus* (Dermest.), 1299; HESSE, *Hoplitopales lineatus* (Curc.), *Sphenoptera cupreosplendens* (Bupr.), 1322; ISAAC, *Paederus fuscipes* (Staph.), 1471; JANCKE, *Euvolvulus cupreus* (Curc.), 1498; KHATIB, *Galerucella birmanica*, 1611; MADLE, *Aphodius rufipes*, 1894; NEWTON, *Psylliodes hyoscyami* (Halt.), 2174; NEZU, SAKAMOTO & SONOYAMA, *Luperodes femoralis* (Galeruc.), 2175; NONELL COMAS, *Coraeus undatus* (Bupr.), 2204; OGLOBLIN, *Chalcodermus bondari* (Curc.), 2229; PAILLOT, *Oberea linearis* (Lamiid.), 2268; SUBKLEW, *Agriotes lineatus*, *obscurus* (Elat.), 2938; VITALE, *Brachycerus albidentatus* (Curc.) 3184; WILLE, *Anacentrinus saccharidis* (Curc.), 3301; YAKHONTOV, *Hypera variabilis* (Curc.), 3340; YUUNG, *Metriona circumdata* (Cass.), 3359.—*Hymenoptera*: BAKKENDORF, some *Mymaridae*, 117; CHRISTENSEN, *Hoptomerus spinipes* (Eumen.), 564; CLANGY, *Tetracnemus pretiosus* (Encyrt.), 572; DE LEON, *Coeloides dendroctoni* (Brac.), 728; GLOVER, *Bracon tachardi*, 1087; HANNA, *Euchalcidia caryobori*, 1199; IOAKIMOV, *Acantholyda erythrocephala* (Tenthred.), 1462; KUTTER, *Pirene graminea* (Miscogast.), 1736; MACGILL, *Anagrus atomus* (Mymar.), 1884; OBARSKI, *Cladius pectinicornis* (Tenthred.), 2214; SERVADEI, *Arge pagana* (Tenthred.), 2795; YASUMATSU, *Psenulus lubricus* (Spheg.), 3350.—*Lepidoptera*: [ANON], *Papilio* spp., 2, *Nudaurelia rhodophila* (Lep. Saturn.), *Nephele roseus*, *Lophostethus demolini* (Spheg.), 3; CHAPPELL, *Alucita monospilalis*, *Platyptilia falcatalis* (Pteroph.), *Nymphostola galactina* (Tin.), *Celama parvitis* (Noct.), 528; CLARK, *Rhabdoides cellus* (Hesp.), 573; CLEARE & SQUIRE, *Brassolis sophorae*, 582; HEINRICH in DAVIS, *Diatraea grandiosella* (Pyr.), 719; DE GRYSSE & SCHEDI, *Ellopija fiscellarii* (Geom.), 725; FARQUHAR, *Fumea casta* (Psych.), 901; FROHAWK, British

butterflies, 991; GILLIATT, *Recurvaria nanella* (Tin.), 1075; HERFORD, *Ereunetis flavistriata*, *Pyroderces rileyi* (Tin.), 1298; HEY & THOMAS, *Cacoecia podana* (Tortr.), 1326; KAMIYA, *Dendrolimus superans* (Lasioc.), 1563; KAWADA, Saturniidae, 1590; LEEFMANS, *Pareba vesta* (Nymph.), 1763; MILES, *Depressaria conterminella* (Tin.), 2048; MISRA & GUPTA, *Holcocera pulvereana* (Tin.), 2058; RUMYANTZEV, *Lithocolletis populifoliella* (Tin.), 2619; SPEYER, *Audeoudia haltica* (Pyr.), 2880; STAPLEY, *Argyresthia conjugella* (Tin.), 2894; VOÛTE, *Phyllocnistis citrella* (Tin.), 3199; WILLE, *Mescinia peruella* (Pyr.), 3300; ZÖLLNER, *Lygris pyropata* (Geom.), 3399.—*Trichoptera*: ORCUTT in BETTEN, New York spp., 261; KUWAYAMA, *Setodes argentata*, *Oecetis nigropunctata*, 1737; MORETTI, some Italian *Trichoptera*, 2077.—*Mecoptera*: SYMS, British *Mecoptera*, 2969.—*Diptera*: AUSTEN, *Gedolstia impolita* (Oestr.), 104; BANGERTER, *Elephantomyia*, *Ula*, *Elliptera*, 144; BHATIA, *Psilocephala segua* (Therav.), 264; CAMERON, *Haematopota pluvialis* (Taban.), 472; COUDERC, *Perrisia affinis* (Cecid.), 653; DE MEILLON, some S. African *Simulium*, 733; DINGLER, *Platyparea poeciloptera* (Trypet.), 747; DOWDEN, *Zenillia libatrix* (Tach.), 774; EDWARDS, *Arachnocampa*, *Ceroplatys*, *Bolitophila* (Mycectoph.), 821; FULLER, *Sciadocera rufomaculata* (Phor.), 1001, *Actina incisuralis* (Strat.), 1002; GIBBINS, nine Uganda *Simulium*, 1069; GOETGHEBUER & LENZ in LINDNER, *Ceratopogonidae*, 1100; HESSE, *Sturmia inimica* (Tach.), 1322, *Telmatogeton sancti-paruli*, *minor* (Chiron.), 1323; ISAAC, *Tabanus speciosus*, *Haematopota roralis* (Taban.), 1472; JOHANNSEN, N. American *Nematocera*, 1524; MAYER, *Ceratopogonidae*, 1986, 1987; MORETTI, *Chironomidae*, 2079; OTTER, *Lestodiplosis alvei* (Cecid.), 2260; PAGAST, *Chironomus xenolabis*, 2265; PARKER, *Centeter unicolor* (Tach.), 2291; PEUS, *Chaoborinae* (Culic.), 2341; SCOTT, *Nycteribia pedicularia*, 2759; SÉGUY, *Lucilia* (Calliph.), 2768; SMART, *Simulium ornatum*, 2841; THIENEMANN, various *Chironomidae*, 3037–3040; THOMPSON, Tachinid parasites of woodlice, 3050; TOKUNAGA, *Forcipomyia crinume* (Ceratop.), 3065; WOOD, *Dixa bicolor*, 3331; ZAVREI, *Tanytarsus* spp. (Chironom.), 3377.

Larvae.

Insecta: KARNY, aquatic insects, 1579. — *Coleoptera*: ALEKSANDROV, *Callipogon relictus* (Ceramby.), 23; BALFOUR-BROWNE, *Deronectes depressus, elegans* (Dytisc.), 128; BERTRAND, some aquatic Coleoptera, 258; BLAIR, Coleoptera generally, 288; BOLDORI, *Sphodrus leucophthalmus* (Carab.), 330; BUGNION, *Pelania mauritanica* (Lampyr.), 439a; BURGEON, *Teffhus* sp. (Carab.), 449; CHEN, *Mesoplatys ochrop-tera* (Chrysom.), 538; CROS, primary larvae of 3 Meloidae, 674–675a; ELMORE, DAVIS & CAMPBELL, *Anthonomus eugenii* (Curc.), 833; ESSIG & MICHEL-BACHER, *Hypera postica* (Curc.), 872; GARDNER, some Uganda Coleoptera, 1039, Indian Curculionidae, Scolytidae, 1040, 1041; GRANDI, *Apion columbinum* (Curc.), 1126; HANDSCHIN, *Allochra handschini* (Staph.), 1193a; HERFS, *Anthrenus* spp. (Dermes.), 1299; HESSE, *Sphenoptera cupreosplendens* (Bupr.), *Hoplitopaletus lineatus* (Curc.), 1322; HEYMONS & LENDERKEN, *Silpha tristis*, 1329; HRISAFI, *Galerucella luteola*, 1419; ISAAC, *Paederus fuscipes* (Staph.), 1471; JANCKE, *Euvolutulus cupreus* (Curc.), 1498; KHATIB, *Galerucella birmanica*, 1611; KOHLER, *Niptus hololeucus* (Ptinid.), 1672; KORSCHESKY, *Platynaspis luteorubra* (Coccinell.), 1698; LANDIS & DAVIDSON, *Epilachna corrupta* (Coccin.), prothetely, 1751; LÜHMANN, *Galerucella viburni*, 1859; McDougall, determination of larval stadia of Elateridae, 1874; MADLE, *Aphodius rufipes*, 1894; MEYER, *Phyllotreta vittula* (Halt.), 2028; NAGEL, *Tribolium confusum*, metathetely in larvae, 2181, *Sclerostomus ruficollis* (Lucan.), 2130; NEWTON, *Psylliodes hyoscyami* (Halt.), 2174; NEZU, SAKAMOTO & SONOYAMA, *Luperodes femoralis* (Galeruc.), 2175; NONELL COMAS, *Coraebus undatus* (Bupr.), 2204; OBENBERGER, *Trachys minuta* (Bupr.), 2217; OGLOBLIN, *Chalcodermus bondari* (Curc.), 2229; PAILLOT, *Obera linearis* (Lamiid.), 2268; PUKOWSKI, *Necrophorus*, 2458; RAMMNER, *Cassida murraea*, 2478; RAYNAUD, *Nebria lafresnayei* (Carab.), 2489; SABROSKY, *Ischyndocera curtippennis* (Cler.), 2632; SASAKI, *Chrysochroa fulgidissima* (Bupr.), 2653; SELS, *Phalacrus politus*, 2782; STROUHAL, *Laemostenus schreibersi* (Carab.), 2935; SUBKLEW, *Agriotes lineatus, obscurus*

(Elat.), 2938; VITALE, *Brachycerus albidentatus* (Curc.), 3184; WILLE, *Anacentrinus saccharidis* (Curc.), 3301; YAKHONTOV, *Hypera variabilis* (Curc.), 3340; YEUNG, *Melrionia circumdata* (Cass.), 3359; ZWÖLFER, *Cetonia aurata* 3405. — *Hymenoptera*: BAKKENDORF, generic synopsis of Danish Myrmariid larvae (Hym.), 117; BAUDOT, *Coelocrabro pubescens*, 183; BRADLEY & BURGESS, *Cremastus flavoorbitalis* (Ichn.), 367; CHRISTENSEN, *Hoptomerus spinipes* (Eumen.), 564; CLANCY, *Tetraneumon pretiosus* (Encyrt.), 572; DE LEON, *Coeloides dendroctoni* (Brac.), 728; GEORGE, *Melipona iridipennis* (Apid.), 1057; GIORDANI SOIKA, some Hymenopterous larvae, 1081; GLOVER, *Bracon tachardiae*, 1087; GRANDI, various Vespids and Apids, 1127, 1129; HANNA, *Euchalcidia caryobori*, 1199; IOAKIMOV, *Acantholyda erythrocephala* (Tenthred.), 1462; KUTTER, *Pirene graminea* (Miscogast.), 1736; MACGILL, *Anagrus atomus* (Mymar.), 1884; OBARSKI, *Cladius pectinicornis* (Tenthred.), 2214; PARKER, Tenthredinidae, 2289; PEMBERTON, *Telenomus narvai* (Scelion.) 2321; ROSENBERG, some Ichneumonidae, Braconidae, 2582; SCHÖNWEISE, *Lophyrus sertifer* (Tenthred.), 2715; SERVADEI, *Arge pagana* (Tenthred.), 2795; STRITT, *Pamphilus neglectus* (Tenthred.), 2933; VELICHKEVICH, *Cephus pilosulus*, *Calameuta filiformis* (Tenthred.), 3166; YASUMATSU, *Psenulus lubricus* (Spheg.), 3350. — *Lepidoptera*: [ANON.], *Papilio* spp., 2, *Nudaurelia rhodophila* (Saturn.), *Nephele roseus*, *Lophostethus demolini* (Sphinx.), 3; BISHARA, *Prodenia litura* (Noct.), 283; CATALA, *Aterica rabena* (Nymph.), 510; CHAPPELL, *Alucita monospilalis*, *Platyptilia falcatalis* (Pteroph.), *Nymphostola galactina* (Tin.), *Celama parvitis* (Noct.), 528; CLARK, *Rhabdoides cellus* (Hesp.), 573; CLARKE, some N. American Tineids, 581; CLEAR & SQUIRE, *Brassolis sophorae*, 582; CRUMB, Hypeninae (Noct.), classification of larvae, 676; HEINRICH in DAVIS, *Diatraea grandiosella* (Pyral.), 719; DE GRAYE & SCHEDEL, *Ellopija fiscellaria* (Geom.), 725; FARQUHAR, *Fumea casta* (Psych.), 901; FLETCHER, various Indian Microlepidoptera, 927, 939; FRASER, *Stauropus dentilinea* (Notod.), 977; FROHAWK, British butterflies, 991; GILLIATT, *Recurvaria nanella* (Tin.), 1075; HERFORD, *Ereunetis flavistriata*, *Pyroderces rileyi*

- (Tin.), 1298; HESSE, *Phlyctaenodes plumbatalis* (Pyr.), 1322; HEY & THOMAS, *Cacoecia podana* (Tortr.), 1326; HOLLAS, *Actia hebe*, 1377; JÖRGENSEN, some S. American butterflies, 1544; KAMIYA, *Dendrolimus superans* (Lasioc.), 1563; KRISHNA AYYAR, *Corcyra cephalonica* (Pyr.), 1721; LEEFMANS, *Parba vesta* (Nymph.), 1763; LIU & MA, *Actias selene* (Saturn.), 1839; MILES, *Depressaria conterminella* (Tin.), 2048; MISRA & GUPTA, *Holocera pulvereola* (Tin.), 2058; RUMYANTZEV, *Lithocolletis populifoliella* (Tin.), 2619; SCHAEFFER, *Depressaria nervosa* (Tin.), 2662; STAPLEY, *Argyresthia conjugella* (Tin.), 2894; VAZQUEZ, *Morpheis ehrenbergii* (Nymph.), 3165; VOÛTE, *Phyllocnistis citrella* (Tin.), 3199; WILF, *Mescinia peruella* (Pyr.), 3300; ZÖLLNER, *Lygris pyropata* (Geom.), 3399.—*Trichoptera*: ORCUTT in BETTEN, New York spp., 261; KUWAYAMA, *Setodes argentata*, *Oecetis nigropunctata*, 1737; LEPNEVA, *Oligoplectrodes potanini*, 1780; MORETTI, some Italian *Trichoptera*, 2077, 2078.—*Neuroptera*: KILLINGTON, some Hemerobiidae, 1618; SMITH, some Kansas Neuroptera, 2853.—*Diptera*: ALSTERBERG, respiratory system of limnophilous Syrphid larvae, 53; AUSTEN, *Gedoelestia impolita* (Oestr.), 104; BANGERTER, *Elephantomyia*, *Ula*, *Elliptera*, 144; BARNES, *Dizygomyza barnesi* (Agromyz.), 164; BHATIA, *Psilocephala sequa* (Therav.), 264; CAMERON, *Haematopota pluvialis* (Taban.), 472; COUDEEC, *Perrisia affinis* (Cecid.), 653; DINGLER, *Platyparea poeciloptera* (Trypet.), 747; DOWDEN, *Zenillia libatrix* (Tach.), 774; EDWARDS, *Arachnocampa*, *Ceroplatys*, *Bolitophila* (Mycetoph.), 821; EFFLATOUN, Egyptian Asilidae, 825a; FULLER, *Sciadocera rufomaculata* (Phor.), 1001, *Actina incisuralis*, *Ophiodesma* spp. (Strat.), 1002, 1003; GALLIARD, *Oestrus ovis*, 1028; GIBBINS, nine Uganda *Simulium*, 1069; GOETGHEBUER & LENZ in LINDNER, palaearctic Ceratopogonidae, 1100; GOMEZ & PANIAGUA, *Myzomyia hispaniola* (Culic.), 1110; HESSE, *Sturmia inimica* (Tach.), 1322, *Telmatogeton sancti-pauli*, minor (Chiron.), 1323; ISAAC, *Tabanus speciosus*, *Haematopota roralis* (Taban.), 1472; JOHANNSEN, N. American Nematocera, 1524; LI & WU, Chinese Anophelines, 1802; MAYER, Ceratopogonidae, 1986, 1987; DE MEIJERE, some Agromyzidae, 2001; MESSIL, *Ophiomyia pinguis* (Agrom.), 2021; MONTSCHADSKY, *Aedes togoi*, *galloisi* (Culic.), 2069; MORETTI, some Chironomidae, 2079; OTTER, *Lestodiplosis alvei* (Cecid.), 2260; PAGAST, *Chironomus xenolabis*, 2265; PARKER, *Centeter unicolor* (Tach.), 2291; PEUS, Chaoborinae (Culic.), 2341; RODENWALDT, Netherlands Indics Anophelines, 2553; ROSENBERG, *Arrhinomyia tragica* (Tach.), 2582; SMART, *Simulium ornatum*, 2841; SENEVET, some Anophelines, 2792; SÉGUY, *Lucilia* (Calliph.), 2768; THOMAS, *Opomyza germinationis* (Geomyz.), 3042; THOMPSON, Tachinid parasites of woodlice, 3050; THORPE, *Pantophthalmus tabaninus*, 3054; TOKUNAGA, *Forcipomyia crinume* (Ceratop.), 3065; WOOD, *Dixa bicolor*, 3331; THIENEMANN, various Chironomidae, 3037-3040; ZAVREL, *Tanytarsus* spp., *Cryptochironomus* sp. (Chiron.), 3377, 3378.—*Hemiptera*: ANDRE, *Oncopeltus fasciatus* (Lygaeid.), 65; CARMIN & SCHEINKIN, *Aonidiella aurantii* (Cocc.), 492; CHATTERJEE, *Petaloccephala nigrilinea* (Jass.), 529; DUMBLETON, *Typhlocyba australis* (Jass.), 798; HARRIS & ANDRE, *Acantholoma denticulata* (Pentat.), 1213; HOFFMANN, *Graptostethus* sp. (Lyg.), 1370, *Scycanus croceovittatus* (Reduv.), 1371, *Megarrhamphus truncatus* (Pentat.), last-stage nymph, 1372, *Hygia opaca* (Coreid.), 1373; JORDAN, *Mesovelvia furcata*, 1539, *Hydrometra stagnorum*, *gracilentia*, 1540; LAL, *Psyllia mali peregrina*, 1748; MILLER, various Malayan Heteroptera, 2049; PARISH, *Euschistus variolarius* (Pentat.), 2286; SQUIRE, *Mormidea poecila* (Pentat.), 2885; VAN HEERDEN, *Nezara viridula* (Pent.), 3152; WEBER, *Trialeurodes vaporariorum* (Aleurod.), 3241; YOTHERS, *Sticcocephala inermis*, *Ceresa basalis*, *C. albidosparsa* (Membrac.), 3360.—*Thysanoptera*: HERR, *Taenithrips gladioli*, 1318; HESSE, *Dicaiothrips gnidiculus*, 1322; PRIESNER, *Haplothrips apicalis*, *sesuvii*, 2425, *Haplothrips gigantis* sp. n., *Megeugynothrips efflatouni*, 2428.—*Mallophaga*: MARTIN, *Columbicola columbae*, 1955.—*Plecoptera*: HELSON, *Stenoperla prasina*, 1268.—*Ephemeroptera*: BOGOESCU, some Roumanian spp., 321; VAYSSIÈRE, *Baetisca obesa*, *carolina*, 3161.—*Odonata*: BIRD, *Gomphus militaris*, 278; CALVERT,

Anax spp., 470; FURUKAWA, *Epio-
phlebia superstes*, 1010; LIEFTINCK,
Protosticta, *Drepanosticta*, 1814;
WALKER, *Aeschna juncea*, subarctica,
3213.—*Orthoptera*: KORSKOFF, *Ble-
pharopsis mendica* (Mant.), 1695;
SARRA, *Platypleis grisea* (Phasgon.), 2652.

Eggs.

Coleoptera: BOLDORI, *Sphodrus leu-
cophthalmus* (Carab.), 330; ELMORE,
DAVIS & CAMPBELL, *Anthonomus eugenii*
(Curc.), 833; ESSIG & MICHELbacher,
Hypera postica (Curc.), 872; GRANDI,
Apion columbinum (Curc.), 1126;
HERFS, *Anthrenus fasciatus* (Dermest.),
1299; HEYMONS & LINGERKEN, *Silpha
tristis*, 1329; HRISAFI, *Galerucella
luteola*, 1419; ISAAC, *Paederus fuscipes*
(Staph.), 1471; JANCKE, *Euvolutulus
cupreus* (Curc.), 1498; KHATIB, *Galeru-
cella birmanica*, 1611; LÜHMANN,
Galerucella viburni, 1859; MADLE,
Aphodius rufipes, 1894; NEWTON,
Psylliodes hyoscyami (Halt.), 2174;
NEZU, SAKAMOTO & SONOYAMA,
Luperodes femoralis (Galerucid) 2175;
OGLOBLIN, *Chalcodermus bondari* (Curc.),
2229; PARKIN, *Lyctus* spp., 2292;
SUBKLEW, *Agriotes lineatus*, obscurus
(Elat.), 2938; SUBRAMANIAM, *Xylo-
trechus quadripes* (Ceramb.), 2941;
VITALE, *Brachycerus albidentatus* (Curc.),
3184; WILLE, *Anacentrinus saccharidis*
(Curc.), 3301; YAKHONTOV, *Hypera
variabilis* (Curc.), 3340; YEUNG,
Metritona circumdata (Cass.), 3359.—
Hymenoptera: BRADLEY & BURGESS,
Cremastus flavoorbitalis (Ichn.), 367;
CHRISTENSEN, *Hoplomerus spinipes*,
(Eumen.), 564; CLANCY, *Tetracnemus
pretiosus* (Encyrt.), 572; DE LEON,
Coeloides dendrocloni (Brac.), 728;
GLOVER, *Bracon tachardiae*, 1087;
IOAKIMOV, *Acantholyda erythrocephala*
(Tenthred.), 1462; KEARNS, *Cepha-
lonomia gallicola*, 1593; KUTTER,
Pirene graminea (Miscogast.), 1736;
MACGILL, *Anagrus atomus* (Mymar.),
1884; OBARSKI, *Cladius pectinicornis*
(Tenth.), 2214; SCHÖNWEISE, *Lophy-
rus sertifer* (Tenth.), 2715; SERVADEL,
Arge pagana (Tenth.), 2795.—*Lepidop-
tera*: [ANON.], *Papilio* spp., 2, Satur-
niids and Sphingids, 3; BISHARA,
Prodenia litura (Noct.), 283; CLARK,
Rhabdoides cellus (Hesp.), 573; CLEARE
& PERKINS, *Brassolis sophorae*, 582;
DAVIS et al., *Diatraea grandiosella*
(Pyr.), 719; DE GRUYSE & SCHEDL,
Ellopiia fiscellaria (Geom.), 725; FRO-
HAWK, British butterflies, 991; GIL-
LIATT, *Recurvária nanella* (Tin.), 1075;
HERFORD, *Ereunetis flavistriata*, *Pyro-
derces rileyi* (Tin.), 1298; HEY &
THOMAS, *Cacoechia podana* (Tortr.),
1326; HOLLAS, *Heterogenea asella*
(Limaecod.), 1378; KAMIYA, *Dendro-
limus superans* (Lasioc.), 1563; MILES,
Depressaria conterminella (Tin.), 2048;
MISRA & GUPTA, *Holcocera pulvere-
a* (Tin.), 2058; SCHAEFFER, *Depressaria
nervosa* (Tin.), 2662; STAPLEY, *Argy-
resthia conjugella* (Tin.), 2894; VOÛTE,
Phyllocnistis citrella (Tin.), 3199;
WILLE, *Mescinia peruella* (Pyr.),
3300; ZÖLLNER, *Lygris pyropata*
(Geom.), 3399.—*Trichoptera*: KUWA-
YAMA, *Setodes argentata*, *Oecetis nigro-
punctata*, 1737; MORETTI, egg-masses
of some Italian Trichoptera, 2077, 2078.
—*Mecoptera*: SYMS, British spp., 2969.
—*Diptera*: BARNES, *Dizygomyza
barnesi* (Agromyz.), 164; DE BUCK &
SWEILENGREBEL, *Anopheles maculi-
pennis*, surface pattern of egg, 436;
CAMERON, *Haematopota pluvialis*
(Taban.), 472; DE MEILLON, some S.
African *Anopheles* (Culic.), 733; DOW-
DEN, *Zenillia libatrix* (Tach.), 774;
FULLER, *Sciadocera rufomaculata*
(Phor.), 1001; GOMEZ & PANIAGUA,
Myzomyia hispaniola (Culic.), 1110;
ISAAC, *Tabanus speciosus*, *Haematopota
roralis* (Taban.), 1472; MAYER, Cerato-
pogonidae, 1987; PARKER, *Centeter uni-
color* (Tach.), 2291; ROSENBERG, *Arrhi-
nomyia tragica* (Tach.), 2582; SMART,
Simulium ornatum, 2841; STRASBUR-
GER, *Calliphora erythrocephala*, 2931;
THOMAS, *Opomyza germinationis*
(Geomyz.), 3042.—*Hemiptera*: DUM-
BLETON, *Typhlocyba australis* (Jass.),
798; HARRIS & ANDRE, *Acantholoma
denticulata* (Pentat.), 1213; HOFFMANN,
various Chinese spp., 1370, 1371, 1373,
Lygaeus hospes, Lingnan Sci. J. 13
p. 181; JOHNSON, *Notostira erratica*
(Caps.), 1527; JORDAN, aquatic bugs,
1538–1540; PARISH, *Euschistus vario-
larius* (Pentat.), 2286; SCHNEIDER,
Ranatra linearis (Nepid.), 2711; SQUIRE,
Mormidea poecila (Pentat.), 2885;
STICKNEY, *Phoenicococcus marlatti*, *Par-
latoria blanchardi* (Cocc.), 2915; VAN
HEERDEN, *Nezara viridula* (Pent.),
3152; YOTHERS, *Stictocephala inermis*
(Membr.), 3360.—*Thysanoptera*: HERR,
Taeniothrips gladioli, 1318; PRIESNER,
Megerugethiopsis efflatouni, 2428.—
Orthoptera: CAPPE DE BAILLON,

FAVRELLE & VICHET, Phasmidae (Orth.), 481; JAPPONE, *Calliptamus italicus* (Acrid.), 1501; KORSKOFF, *Blepharopsis mendica* (Mant.), ootheca, 1695; MATHUR, *Crecoboter urbana*, *Deiphobe* sp., *Hierodula westwoodi* (Mant.), ootheca, 1973.

DEVELOPMENT.

Spermatogenesis.

DOBZHANSKY, *Drosophila pseudoobscura* (Dipt.), spermatogenesis in pure and hybrid, 754; FAVRELLE, Phasmidae (Orth.), 903; GEORGÉVITCH, *Callimenus pančići* (Orth. Acrid.), 1058; GOETGHEBUER & LENZ in LINDNER, Ceratopogonidae (Dipt.), 1100; KOLLER, *Drosophila pseudo-obscura* (Dipt.), cytological basis of sterility in hybrid males, 1676; MACHIDA, *Polistes* spp. (Hym. Vesp.), 1886; NELSEN, *Melanoplus differentialis* (Orth. Acrid.), segregation of germ cells, 2169; PAYNE, *Leptocoris trivittatus* (Hem. Coreid.), aggregation of sperms, 2312; PERROT, *Goniodes styliifer* (Malloph.), 2329.

Oogenesis.

GRESSON, *Stenophylax stellatus* (Trichopt.), 1141; LA FACE, *Anopheles maculipennis* (Dipt. Culic.), effect of blood meals on ovarian development, 1742; NELSEN, *Melanoplus differentialis* (Orth. Acrid.), development of ovary, 2168; PASPALEV, *Aphis rosae*, *Siphonophora rosarum* (Hem. Aphid.), development of ovaries and oocytes in parthenogenetic generations, 2296; PERROT, *Goniodes styliifer* (Malloph.), 2329.

Embryology.

ABRAHAM, *Cimex lectularius* (Hem.), behaviour of sperm in body of ♀, 11; AUTEN, *Phormia regina* (Dipt. Calliph.), 105; BATAILLON & SU, *Bombyx mori* (Lep.), 177; BODINE, *Melanoplus differentialis* (Orth. Acrid.), 309-313; BOELL, *Melanoplus differentialis* (Orth. Acrid.), respiratory quotient of embryos, 317; BRAUER & TAYLOR, *Bruchus quadrimaculatus* (Col.), organisation centres in eggs, and effects on development, 373; BUTT, *Sciara* (Dipt.), 461; CHRISTENSEN, *Hoplomerus spinipes* (Hym. Eumen.), 564; ELSE, *Melanoplus differentialis* (Orth. Acrid.), origin and development of male genitalia, 834; EVANS, *Melanoplus differentialis* (Orth. Acrid.), anomalies in embryos due to x-rays, 881; changes in radiosensitivity of grasshopper embryos during development (Orth.), 882; FERNANDO, early embryology of a viviparous Psocid, 912; GALLIARD, hatching of Reduviids (Hem.), 1031; GAUSE & ALPATOV, *Bombyx mori*, alteration in temperature, susceptibility of eggs during development, 1046; HENSHAW, *Drosophila melanogaster* (Dipt.), effect of x-rays on differentiation in eggs, 1292; JUCCI, *Bombyx mori*, development of egg in polyvoltine strains, 1545; KING & SLIFER, *Melanoplus differentialis* (Orth. Acrid.), maturation and early development in unfertilised eggs, 1627; OKA, *Gryllus mitratus* (Orth.), embryonic development, 2235; PARKIN, *Lyctus* spp. (Col.), 2292; PAYNE, rate of growth in various parts in embryo, 2313; PROMPTOV, *Drosophila melanogaster*, effect of increased temperature on sexual cells in egg, 2436; RAMACHANDRA RAO, *Aularches miliaris*, (Orth. Acrid.), spermatogonial division, 2472; SAITO, *Antheraea pernyi* (Lep.), 2639; SCHNETTER, *Apis mellifica*, differentiation centre in embryonic development, 2712, 2713; SEIDEL, *Platynemius pennipes* (Odon.), 2776; SLIFER & KING, *Melanoplus differentialis* (Orth. Acrid.), 2838, 2839; SMART, *Simulium ornatum* (Dipt.), 2841; SMREČYŃSKI, *Phyllobius glaucus* (Col. Curc.), 2855; THOMPSON, *Melanoplus* spp. (Orth. Acrid.), rhythmic activities in embryos, 3048; TIRELLI, *Bombyx mori*, development of hybrid eggs, 3062; VAN HEERDEN, *Nezara viridula* (Hem. Pent.), incubation and hatching, 3152; VOHRINGER, *Galleria mellonella* (Lep. Pyral.) development and hatching of egg, 3187; WALKER, *Melanoplus differentialis* (Orth. Acrid.), effect of carbon dioxide on beating of lateral walls in embryo, 3214; WONG & LI, *Bombyx mori* (Lep.), 3330.

Cytology.

ARGESEANU & FEYEL, of Malpighian tube of *Dytiscus* (Col.), 79; ASANA & MAKINO, *Labidura riparia* (Dermapt.) idiochromosomes, 88, *Poecilocera picta* (Orth. Acrid.), chromosomes, 89;

- BYTINSKI-SALZ, *Celerio* and *Pergesa* (Lep. Sphing.), cytology of hybrids, 468; CAPPE DE BAILLON, FAVRELLE & VICHET, *Carausius theiseni* (Orth. Phasm.), cytology of somatic cells in embryo, 481; CAROTHERS, chromosomal origin of spindle fibres in grasshoppers, 493; FØYN, *Drosophila*, chromosome structure, 966; GEITLER, *Simulium* (Dipt.), cytology of salivary gland in larva, 1054; GEORGÉVITCH, *Callimenus pančiči* (Orth. Acrid.), cytology of spermatogenesis, 1058; GOLDSCHMIDT, *Lymantria dispar* (Lep.) 1107; GRASSÉ & LESPERON, *Bombyx mori*, cytology of silk glands, 1131; HODSON, *Tribolium confusum* (Col.), origin of germ cells, 1363; HUETTNER, *Myiastor americana* (Dipt. Cecidomy.), octoploidy and diploidy, 1425; JEFFREY, internal variation in chromosomes in Dipterous larvae, 1519; JORG, *Hylesia nigricans* (Lep. Saturn.), 1542; KAUFMANN, *Drosophila melanogaster* (Dipt.), somatic mitoses, 1588; KICHJO, chromosomes of Chrysopidae (Neur.), 1612; KING & BEAMS, *Chironomus* (Dipt.), somatic synapsis in chromosomes, 1626; KOLLER, *Drosophila pseudo-obscura* (Dipt.), cytological basis of sterility in hybrid males, 1676; KOLTZOFF, *Drosophila*, structure of chromosomes in salivary glands, 1677; KOSTOFF, *Drosophila melanogaster* (Dipt.), discoid structure of chromosomes, 1706; KOZHEVNIKOV, *Drosophila melanogaster simulans*, non-homology of sex chromosomes, 1717; KRAUSE, *Tachycines asymmorus* (Orth. Tettig.), first differential process in germ in artificially produced twin, double and multiple formations, 1720; MAKINO & KICHJO, *Stenopsyche griseipennis* (Trichopt.), female heterogamety, 1904; METZ & GAY, *Sciara* (Dipt.), chromosomes of salivary glands, 2026, 2027; NABOURS & KINGSLEY, *Apoteitix eurycephalus* (Orth. Acrid.), autosomal lethal factor affecting chromosomes, 2128; NAVILLE & BEAUMONT, *Panorpa* spp. (Mecopt.), chromosomes, 2161; PAINTER, *Drosophila melanogaster*, structure of x-chromosomes in salivary glands, 2272; SCHMUCK, *Sciara pauciseta* (Dipt.), male somatic chromosome group, 2705; SOKOLOV, *Drosophila melanogaster*, separation of sex chromosomes, 2862; STRASBURGER, *Calliphora erythrocephala* (Dipt.), cell-movement in eggs, 2931; TAKAGI, *Luciola cruciata* (Col. Lampyrid.), mitochondria in luminous organs, 2981; TIRELLI, *Bombyx mori* (Lep.), yolk-cells in hybrid eggs, 3062; TORVIK-GREB, *Habrobracon* (Hym.), chromosome numbers, 3075; TRAGER, *Lucilia sericata* (Dipt. Calliph.), relation of cell size to growth in larva, 3087; ZARAPKIN, *Drosophila funebris*, connection between size of organ and cell-number, 3373.
- Effects of Various Factors on Growth.**
- ANDERSEN, *Sitona lineata* (Col.), influence of constant temperature on egg production, 63, *Calandra granaria* (Col. Curc.), 64; ANDREWARTHA, *Thrips imaginis* (Thysanopt.), effect of soil moisture on viability, 67; BISHARA, *Prodenia litura* (Lep. Noct.), relation of temperature and humidity, 283; BODENHEIMER, *Chrysomphalus aurantii* (Hem. Cocc.), correlation between temperature and length of development, 306; BUA, *Dacus oleae* (Dipt. Tryp.), effect of rainfall and temperature on abundance, 433; BUXTON & LEWIS, *Glossina submorsitans*, *tachinoides* (Dipt.), climatic factors which limit adult life or reproduction, 465; COLE, *Pogonomyrmex occidentalis* (Hym. Form.), effect of temperature on aestivation, 609; DARBY & KAPP, *Anastrepha ludens* (Dipt. Tryp.), relation of pH of soil to pupation, 707, *Opius crawfordi* (Hym. Ichn.), humidity and survival, 707; DAVIDSON, *Smynthurus viridis* (Collemb.), influence of moisture, temperature and soil, 712; DERBENEVA-UKHOVA, *Phormia groenlandica*, *Calliphora erythrocephala* (Dipt.), temperature and larval growth, 738; DUSTAN & ARMSTRONG, *Cydia molesta* (Lep. Tortr.), relation of temperature and moisture to pupation, pupal period, spring emergence of moths, oviposition, fecundity, larval feeding period, 805; ESSIG & MICHELbacher, *Hypera postica* (Col. Curc.); temperature and egg-laying, 872; EVANS, *Lucilia sericata* (Dipt.), influence of humidity and temperature on egg, 875; EVANS, *Melanoplus differentialis* (Orth. Acrid.), anomalies in embryos due to x-rays, 881; FRIEDERICHs, effect of absence of light on insect development, 985; KOIDSUMI, *Dacus*, low temperatures, 1075a; GUARESCHI, *Lina populi*, *Pieris brassicae* (Lep.), effects on development of larvae placed in a centrifuge, 1153, 1154; GUNN, *Blatta orientalis*, temperature preferences, 1165; HANSON &

HEYS, *Drosophila melanogaster*, effect of x-rays on germ-cell formation, 1201; HARUKAWA, TAKATO & KUMASHIRO, *Hylemyia cilicrura* (Dipt.) temperature, soil moisture, 1218; HENZE, effect of air in motion on the development of Lepidoptera, 1293; HUFNAGEL, *Calliphora erythrocephala* (Dipt.), *Hyponomeuta padellus* (Lep. Tineid.), x-rays on metamorphosis, 1428; HYKEŠ, *Bombyx mori*, effect on growth of feeding on various extracts, 1446; IMAI, *Drosophila melanogaster*, effects of temperature on size of egg, 1457; JANDA, *Tenebrio molitor* (Col.), effects of radium and ultra-violet light on pupa, 1499; KANN, *Carausius (Dixippus) morosus*, effect of temperature on length of stages, 1570; KÖRTING, *Carausius morosus*, influence of food on growth, 1702; KOZHANCHIKOV, *Agrotis segetum*, *Ephestia kühnzella* (Lep.), transformation of energy in pupal development, 1712; LEDERER, effect of temperature on development, 1762; LÜHMANN, *Galerucella viburni* (Col.), temperature, 1859; LUND, *Trichogramma minutum* (Hym.), temperature and humidity on development, sex ratio, mortality, 1864; MAIL, *Aedes vexans* (Dipt. Culic.), 1901; MATHIS & BAFFET, *Aedes argenteus* (Dipt. Culic.), larval development in pure culture of *Euglena*, 1972; MELLANBY, *Tineola biselliella* (Lep.), effects of temperature and humidity on larva, 2007; MELVIN, incubation period of eggs of certain Muscoid flies at different constant temperatures, 2011; MENUSAN, *Bruchus obtectus* (Col.), temperature and humidity on mortality and duration of stages, 2014; MOORE, *Drosophila melanogaster*, production of sterility by x-rays, 2071; MORETTI, Trichoptera, effect of temperature and light on larval cases, 2080; MORRIS, *Glossina longipalpis*, influence of climate on density activity, 2087; NAGEL & SHEPARD, *Tribolium confusum* (Col.), lethal effect of low temperatures, 2132; NEIGAUZ, *Drosophila melanogaster*, effect of x-rays on mutation in sex-cells, 2166; NIESCHULZ, *Stomoxys calcitrans* (Dipt.), expts. on preferred temperature, 2191; NORRIS, *Ephestia* (Lep. Pyral.), effects of water-drinking, sugar diet, albumen diet on adults, 2209; OMORI, *Cimex hemipterus* (Hem.), influence of low temperatures, 2250; PAILLOT, organic modifications in plant-lice due to parasitism, 2269; POSPELOV, *Locusta*

migratoria (Orth.), effect of temperature on sexual maturation, 2406; RIEDEL, *Drosophila melanogaster*, effect of temperature on length of wings and tibia, 2540; ROUBAUD, *Schistocerca gregaria* (Orth. Acrid.), importance of dryness in determining gregarious behaviour, 2603; ROUBAUD & TREILLARD, *Anopheles maculipennis* (Dipt.), influence of larval nourishment on behaviour of adult, 2609; SCHREAD & GARMAN, *Trichogramma* (Hym.), effects of refrigeration on breeding, 2721; SCOTT, *Calliphora*, x-rays on eggs, 2758; SHANNON & PUTNAM, *Stegomyia*, factors influencing larval development, 2803; SHIBATA, *Callipterus kurikola* (Hem. Aphid.), males and amphigonous females experimentally produced by low temperatures, 2809; SINITSKY & SHEKERA, *Loxostege sticticalis* (Lep.), influence of under nourishment on duration of larval stage and fertility of adult, 2826; SLIFER, *Melanoplus differentialis*, effect of anisotonic salt solution on embryo, 2838; STEEN, *Drosophila melanogaster*, effect of ultra-violet rays on fertility, 2902; SUBKLEW, effect of moisture, pH and chemical content of soil on early stages of Elaterids, 2939; SUZUKI, *Loxoblemmus arietulus* (Orth. Gryll.), effect of x-rays upon chromosomes, 2958; TRENŠZ, *Aedes mariae* (Dipt.), influence of sunshine on eggs and larva, 3100; WOLFF & RAS, *Drosophila melanogaster*, mitogenetic rays on eggs, 3320; ZNOJKO, *Loxostege sticticalis*, temperature, 3398.

Sex Ratio.

BORROR, *Argia moesta* (Odon.), 350; BRUNSON, *Tiphia popillivora* (Hym. Scol.), 423; CHATTERJEE, *Petaloccephala nigrilinea* (Hem. Jass.), 529; CLANCY, *Tetraneura pretiosus* (Hym. Encyrt.), 572; DAVIDSON, *Smythkurus viridis* (Collemb.), 712; DAVIS ET AL., *Dialraea grandiosella* (Lep. Pyral.), 719; FARQUHAR, *Fumea casta* (Lep. Psych.), 901; GOTTSCHESKI, *Drosophila melanogaster*, dependence of sex ratio on age of germ cell, 1116; KALIS, scarcity of ♀♀ in Javan Pierids (Lep.), 1560; MEHTA, ratio of sexes of some Indian Anophelines, 1997; SHAFTESBURY, sex ratio of fleas of N. Carolina, 2801; TSAI & WANG, change of sex ratio in insects and its significance on insect epidemiology, 3103.

Sex Determination.

BAEHR, heredity and sex determination, 108; DOBZHANSKY & SCHULTZ, *Drosophila melanogaster*, sex determination due to interaction of many genes, 755; DU BOIS, *Sciara coprophila* (Dipt.), 789; GUL' & DOZORTZEVA, *Pteromalus puparum* (Hym.), 1162; WHITING, *Habrobracon* (Hym.), 3291.

Parthenogenesis.

BERLAND, *Leucospis gigas* (Hym. Chalc.), geographical parthenogenesis, 240; CAPPE DE BAILLON, FAVRELLE & VICHET, in Phasmids (Orth.), 481, 482; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; FARQUHAR, *Fumea casta* (Lep. Psych.), 901; HANDSCHIN, *Spalangia sundaica* (Hym. Pterom.), 1193a; HANNA, *Euchalcidia caryobori* (Hym.), 1199; HERR, *Taeniothrips gladioli*, 1318; IIDA, *Homonotus iwatai* (Hym. Psammoch.), 1451; MEISSNER, *Carausius morosus*, 25 years parthenogenetic breeding, 2002; VERMEL, *Bombyx mori*, artificial parthenogenesis, 3174.

Paedogenesis.

ULRICH, *Oligarces paradoxus* (Dipt. Cecid.), 3128a.

Regeneration.

GÄBLER, *Rhopalus subrufus* (Hem. Coreid.), regeneration of antennae, 1013; PRZIBRAM, *Gryllus* and *Sphodromantis* (Orth.), antennae regenerating as legs, 2450, 2452; ŞUSTER, *Carausius morosus*, *Sphodromantis bioculata* (Orth.), regeneration of fore-leg after ganglion extirpation, 2953, 2954; SWEETMAN, regeneration of appendages in *Thysanura*, 2963; TRAJNA, *Agrion* (Odon.), regeneration of appendages in larvae, 3088.

Metamorphosis.

BUSSELMANN, *Ephestia kühniella* (Lep. Pyral.), development of ocelli in larva, 460; CALVERT, *Anix* spp. (Odon.), rates of growth and larval development, 470; CAPPE DE BAILLON, FAVRELLE & VICHET, hatching of larvae in Phasmids (Orth.), 481; CHATTERJEE, *Petaloccephala nigrilinea* (Hem. Jass.), moulting, 529; CHRISTENSEN, *Hoploverus spinipes* (Hym. Eumen.), 564; COUDERC, *Perrisia affinis* (Dipt. Cecid.), 653; DAVIS et al., *Diatraea grandio-*

sella (Lep. Pyral.), 719; DOWDEN, *Zenillia libatrix* (Dipt. Tach.), 774; EVANS, *Perga dorsalis* (Hym. Tenthred.), 879; FRAENKEL, pupation of flies initiated by a hormone, 967; GALLIARD, moults in haematophagous Hemiptera, 1033; GOLDSCHMIDT, *Lymantria dispar* (Lep.), 1107; HUFNAGEL, *Calliphora erythrocephala* (Dipt.), *Hyponomeuta padellus* (Lep. Tineid.), effect of x-rays on metamorphosis, 1426; JANCKE, *Agelastica alni* (Col.), duration of larval stages, 1496, *Euvolvulus cupreus* (Col. Curc.), 1498; KORSAKOFF, *Blepharopsis mendica* (Orth. Mant.), moulting, 1695; KUSTER, *Stratiomys*, *Odontomyia* (Dipt.), 1735; MADLE, *Aphodius rufipes* (Col.), 1894; MAIN, pupation in *Dytiscus* and *Hydrous*, (Col.), 1902; MATHUR, *Creobater urbana*, *Deiphobe* sp., *Hierodula westwoodi* (Orth. Mant.), moults, 1973; PEUS, Chao-borinae (Dipt. Culic.), 2341; PELUGFELDER, development of spinning gland in Tenthredinid larvae (Hym.), 2351; POULSON, *Drosophila pseudoobscura*, time of development of different races, 2409; SMART, *Simulium ornatum* (Dipt.), 2841; SONNENBLICK, *Drosophila melanogaster*, development of normal adults after removal of preblastodermic ooplasm, 2868; SWEETMAN, moulting among *Thysanura*, 2963; TIRELLI, metabolism in insects during metamorphosis, 3061; UMBACH, *Ephestia kühniella*, development of eye in larva and pupa, 3129; WARD, *Myzus persicae* (Hem. Aph.), 3217; WEBER, Aleurodinae, 3241; WILSON, *Lipeurus heterographus* (Malloph.), moulting, 3307; WÜNSCHE, duration of pupal stage in Brazilian Saturniids (Lep.), 3334; YOTHERS, *Stictoccephala inermis* (Hem. Membr.), mechanics of hatching and moulting, 3360.

Diapause.

BRUMPT, *Lucilia bufonivora* (Dipt. Calliphor.), larva, 416, 418; POSELOV, imaginal diapause and sterility of butterflies, 2407; WOLCOTT, *Diaprepes abbreviatus* (Col. Curc.), larval diapause, 3318.

Miscellaneous.

BRUES, growth and determinate size in insects, 412; CAPPE DE BAILLON, FAVRELLE & VICHET, bisexual reproduction in Phasmids (Orth.), 481; DARLING, *Schistocerca gregaria* (Orth. Acrid.), sexual maturation, 708; DIXEY

& GARDINER, *Messor barbarus* (Hym. Formic.), heterogony, 750; LUDWIG, *Popillia japonica* (Col. Rutel.), progression factor in growth, 1855; PAULIAN, disharmony of size in Coleoptera, 2308; ROUBAUD & MEZGER, *Culex pipiens*, larval nourishment does not produce autogeny in races that are specifically not autogenous, 2608; SHPET, progression factor in growth in Orthoptera, 2814.

PHYSIOLOGY.

Respiration.

ALSTERBERG, Syrphid larvae (Dipt.), 53; BALSAM, respiration and heat, 142; DAVIS in BETTEN, Trichoptera, 261; BODINE & BOELL, respiratory mechanisms of normally developing and blocked embryonic cells in Orthoptera, 314; BODINE & EVANS, *Sceliphron caementorium* (Hym.), respiration following x-irradiation, 315; BOTH, *Notonecta glauca* (Hem.), regulation of breathing, 352; BURKHOLDER, respiratory metabolism in developing eggs (Orth.), 454; EVANS, in x-rayed grasshopper eggs, 883; GALLIARD, *Taeniorhynchus richardii* (Dipt. Culic.), 1032; HANNA, *Euchalcidia caryobori* (Hym.), 1199; KLEINMAN, *Chortophaga viridifasciata* (Orth.), *Popillia japonica* (Col.), effect of temperature on respiratory quotients, 1645; KUSTER, *Stratiomyia*, *Odonatomyia* (Dipt.), 1735; RAFFY, of Libellulid larvae in air and water, 2469, of Lepidoptera, 2470; WIGGLESWORTH, 3293.

Digestion.

CASTELNUOVO, *Carausius morosus*, enzymes in digestive tract, 507; DICKMAN, *Galleria mellonella* (Lep.), digestion of wax by larvae, 745; DUSPIVA, *Galleria mellonella*, 804; FULTON & CHAMBERLIN, *Eutettix tenella* (Hem. Jassid.), capacity for synthesising glycerids when fed only on glucose and fructose, 1005; KRUGER, comparative ferment metabolism in lower animals, 1724; LOTMAR, can bees digest starch and dextrin?, 1844; MADLE, *Aphodius rufipes* (Col.), 1894; MANSOUR & MANSOUR-BEK, digestion of wood by

insects and the supposed rôle of micro-organisms, 1928, 1929; PESSON, physiology of digestion in Coccids (Hem.), 2334; WIGGLESWORTH, 3293.

Circulation.

DE BOISSEZON, *Culex pipiens* (Dipt.), effect of temperature on phagocytosis, 326; TAUBER & YEAGER, *Gryllus assimilis* (Orth.), total blood cell counts, 3011; WIGGLESWORTH, 3293; YEAGER & HAGER, *Periplaneta orientalis* (Orth.), action of heart, 3355; YEAGER & HENDRICKSON, *Periplaneta americana* (Orth. Blatt.), blood circulation in wings, 3356.

Secretion.

COULON, odours emitted by insects, 655; GAL'TZOVA, *Bombyx mori*, active reaction of intestinal secretion, 1036; SCHULZE, function of tegumentary glands in Odonata, 2739; STICKNEY, *Phoenicococcus marlatti* (Hem.), wax, 2914.

Excretion.

GEORGE, *Melipona iridipennis* (Hym. Apid.), excretion during metamorphosis, 1056; JÜRGEN, significance of Malpighian tubes in Coleoptera, 1551; KUSTER, *Stratiomyia*, *Odonatomyia* (Dipt.), excretion, 1735; SHIMIZU, *Bombyx mori*, secretion of Malpighian tube in larva, 2811; STAMMER, function of Malpighian tubes in Coleoptera, 2892; WIGGLESWORTH, 3293; YAKHONTOV, *Hypera variabilis* (Col. Curc.), function of Malpighian tubes, 3340; YAO NAN, *Bombyx mori* (Lep.), function of Malpighian tubes, 3345; YEAGER & HAGER, *Periplaneta orientalis* (Orth.), action of Malpighian tubes, 3355.

Reproduction.

BEKLEMISHEV, VINOGRADSKAYA & MITROPHANOVA, *Anopheles* (Dipt. Culic.), correlation between phases of digestion and ovarian development, 202; HEWER, *Zygaena* (Lep.), passage of sperm in female, 1825; KOMAROV, *Apis mellifica*, influence of age of larvae and of number of generations upon the development of the queen's sex organs, 1679; RUBTZOVA, fertility and climatic adaptations in Siberian grasshoppers, 2616; WEIDNER, function of spermatophore, bursa copulatrix and receptaculum seminis of Lepidoptera, 3254;

WEYER, influence of larval nutrition on reproduction in various mosquitos, 3273; *Culex pipiens* (Dipt.), oviposition without blood meals, 3275; WHITING, selective fertilisation in *Habrobracon* (Hym.); 3291; WIGGLESWORTH, 3293.

Nervous System.

HANNA, *Euchalcidia caryobori* (Hym.), 1199; JORG, *Hylesia nigricans* (Lep. Saturn.), 1542; THORPE, *Pantophthalmus tabaninus* (Dipt.), 3054; WIGGLESWORTH, 3293.

Senses.

FLÜGGE, *Drosophila melanogaster*, finding its way by smell, 951; v. FRISCH, sense of taste in bees, 986; GAFFRON, vision of movement in Libellulids, house-flies, Coccinellids, 1022; GRABENBERGER, time memory in ants and termites, 1121, 1123; HECHT & WALD, *Drosophila* (Dipt.), visual acuity and intensity discrimination, 1246; HERTZ, vision of shapes and movement in bees, 1321; HÖRMANN, light perception in bees, 1398; ILSE, sight in insects, especially butterflies, 1456; KALMMS, time memory in bees, 1561; LUTZ & GRISEWOOD, *Drosophila melanogaster*, sight, 1867; MAYER, *Nemeritis canescens* (Hym. Ichn.), sense of smell, 1984; VON STEIN-BELING, *Nemeritis canescens* (Hym. Ichn.), olfactory sense, 2905; VIAUD, sight in nocturnal insects, 3175; WEVER & BRAY, hearing in insects, 5272; WIGGLESWORTH & GILLET, *Rhodnius prolixus* (Hem. Reduv.), function of antennae, 3295; ZERRAHN, recognition of shapes by honey bees, 3385.

Effects of Various Stimuli.

BENJAMIN, *Chironomus* (Dipt.), reactions to electric currents by larvae, 218; BODINE & EVANS, *Sceliphron caementorium* (Hym.), development following x-irradiation, 315; DE BOISSEZON, *Culex pipiens* (Dipt.), effect of increase of temperature on cell multiplication and phagocytosis, 326; BRANNON, *Lucilia sericata* (Dipt.), pupal period shortened by thyroid, 372; COLLINS, *Cydia pomonella* (Lep. Tortric.) effect of light on iris pigment, 626; CREMER, effect of temperature and fatigue on flight muscles in Odonata,

666; DOLLEY, *Eristalis tenax* (Dipt. Syrph.), dark adaptation in eyes, 757; EVANS, x-rayed grasshopper eggs, 883; HASKINS, *Callosamia promelthea* (Lep.), variations in x-rayed stock, 1223; HECHT, *Anopheles maculipennis* (Dipt. Culic.), temperature preferences when ovipositing, 1245; HOLST, movement and sound stimuli in Lepidopterous larvae, 1380; JANDA, *Tenebrio molitor* (Col.), effects of radium and ultra-violet light on colour, metamorphosis and oxygen requirement in pupa, 1499; KALABUKHOV, effects of freezing in insects, 1555; KOZHANCHIKOV, *Agrotis, Ephestia* (Lep.), water balance of pupae as a reaction to humidity of environment, 1713, optimum temperature of certain physiological processes, 1715; LEVINSON, SOLOVIEVA & VASINA, influence of ultra-violet rays on silkworm, *Bombyx mori*, 1793; LUTZ & GRISEWOOD, *Drosophila melanogaster*, effect of 2537 Å radiation, 1867; MAYER, *Rhodnius pictipes* (Hem. Reduv.), effect of cyanide on larvae, 1990; MELLANBY, *Pediculus humanus*, influence of starvation on the thermal death-point, 2008; NICHOLSON, effect of temperature on activity of sheep-blowflies (*Lucilia*), 2179; NORRIS, *Ephestia* (Lep. Pyral.), effects of water-drinking, sugar diet and albumen diet on adults, 2209; PAYNE, differential action of intensity and quantity factor of heat on host and parasite (*Microbracon hebetor* and *Ephestia kuehniella*), 2314; STÄGER, effects of scents on ants, 2891; SUBKLEW, effect of moisture, pH and chemical content of soil on early stages of Elaterids, 2939, 2940; VAN STEENBURG, *Trichogramma minutum* (Hym.), effect of light, wind and precipitation on activities, 3156; WHITE, *Locusta migratoria* (Orth.), increase in no. of flagella in spermatozooids subjected to x-rays, 3289.

Effects of Mutilations.

BODENSTEIN, *Vanessa urticae* (Lep. Nymph.), effect on adult of transplantation of legs in larvae, 308; GÄBLER, alteration in shape and degeneration of stigma by injection of oil in trachea of larvae, 1012; MALABOTTI, effect of replantation of head on metamorphosis, 1905; WIGGLESWORTH & GILLET, *Rhodnius prolixus* (Hem. Reduv.), effect of removal of one or both antennae on orientation, 3295.

Vitality and Longevity.

BASINGER, *Pseudococcus gahani* (Hem.), longevity, 176; CLANCY, *Tetraneura pretiosus* (Hym. Encyrt.), 572; DAVIS et al., *Diatraea grandiosella* (Lep. Pyral.), 719; DOWDEN, *Zenillia libatrix* (Dipt. Tach.), 774; HARUKAWA, TAKATO & KUMASHIRO, *Hylemyia cili-crura* (Dipt.), 1218; KALABUKHOV, *Apis mellifera* (Hym.), effect of temperature, food and density of population on length of hibernation, 1556, 1557; KORSAKOFF, *Blepharopsis mendica* (Orth. Mant.), vitality and longevity in larvae, 1695; KOSMINSKIĬ, *Bombyx mori*, correlation of colour of blood and vitality, 1703; LEGENDRE, *Aedes geniculatus* (Dipt. Culic.), longevity in larvae, 1764; LUDWIG, *Popillia japonica* (Col. Rutel.), effects of desiccation on survival in larva and pupa, 1853; MADLE, *Aphodius rufipes* (Col.), length of life, 1894; MAERCKS, *Pieris brassicae* (Lep.), effect of temperature and moisture on vitality, 1897; MEHTA, *Anopheles subpictus* (Dipt.), survival under controlled condition of temperature and humidity, 1998; PEARSON, adaptation and survival in bees, 2319; PERSIS & SHANNON, *Stegomyia*, 2330; PFAU, *Acherontia atropos* (Lep. SpHING.), resistance of pupa to cold, Ent. Z. 48 p. 102; TEISSIER, *Tenebrio molitor* (Col.), sexual differences in resistance to starvation, 3015; TRAJNA, *Sitotroga cerealella* (Lep. Tineid.), *Sitodrepa panicea* (Col. Anobiid.), longevity in barley and wheat, 3090; VÖHRINGER, *Galleria mellonella* (Lep. Pyral.), length of life of adult and loss in weight, 3187.

Chemistry.

BALDWIN & NEEDHAM, phosphorus distribution in resting fly muscle, 125; BODINE & WOLKIN, *Melanoplus differentialis* (Orth.), iron content and oxidation rates of a developing egg, 316; BRECHER, *Pieris brassicae* (Lep.), tyrosinase in larvae before pupation, 374; COOK & SCOTT, *Zootermopsis angusticollis*, nutritional requirements, 635; DEMYANOVSKIĬ & PROKOF'EVA, *Bombyx mori*, reducing power of haemolymph, 734; DRILEON, chemical analysis of Lepidoptera, 787; EVANS, *Tenebrio molitor* (Col.), chemical changes associated with metamorphosis, 874; FEDELI, *Bombyx mori*, existence of amylase in intestines, 904;

FLORKIN, oxygen and CO₂ content of blood of insects with open tracheal system, 950; GRABENSBERGER, time memory in bees and wasps after feeding on Euchinin and Iodthyreoglobulin, 1122; HAYDAK, *Apis mellifica* (Hym. Apid.), changes in total nitrogen content during life of imago, 1232; HOSKINS & HARRISON, *Apis mellifica*, buffering power of contents of ventriculus and its effect on toxicity of arsenic, 1412; KOCH, reduction of silver salts by various organs in insects not "vital" but secondary, 1667; KOCAN & SPAČEK, pH of body fluid in Coleoptera, 1668; KUCERA, *Drosophila melanogaster* (Dipt.), oxygen consumption, 1728; KURODA, *Bombyx mori*, water content in blood during development, 1734; LEDERER, *Coccinella septempunctata*, *Pyrrhocoris apterus*, *Oedipoda miniata*, carotinoids in teguments, 1761; LU, chemical analysis of Meloidae [in Chinese], 1845; LUDWIG, *Popillia japonica* (Col. Rutel.), changes in pH of blood, 1854; MACIUCA, *Pyrrhocoris apterus* (Hem.), seasonal variation in glycogen, 1888; MANUNTI, *Bombyx mori*, origin of uric acid in hibernating egg, 1930; MARTIN & COTNER, serological studies of moth proteins, 1956; MELLANBY, site of loss of water from insects, 2009; PRZIBRAM & LEDERER, green in Orthoptera composed of yellow carotin and a blue colour-material soluble in water, 2451; SCHERR, colouring-matter in Chironomid larvae (Dipt.), 2678; SCHLOTTKE, *Habrobracon juglandis* (Hym.), influence of oxygen concentrations on pigment, 2688; SUBKLEW, *Agriotes lineatus*, *Corymbites sjaelandicus* (Col. Elat.), chemistry of water content, 2937; TAYLOR, BIRNIE, MITCHELL & SOLINGER, *Galleria mellonella* (Lep.), pH changes during metamorphosis, 3014; TIRELLI, chemical changes in insects during metamorphosis, 3061.

Miscellaneous.

ALEKSANDROV, permeability of chitin in larvae of Diptera, 24; BARDINO, permeability of intestinal mucous membrane of *Bombyx* to food material in vitro, 160; BODENHEIMER, body temperature in insects, 307; HARNISCH, *Chironomus thummi* (Dipt.), osmosis, 1211; HARTZELL, histopathology of insect nerve lesions caused by insecticides, 1217; HULLS, *Acherontia atropos*, loss of weight during pupal stage, 1429;

JAHN, *Melanoplus differentialis* (Orth. Acrid.), permeability of egg-membrane, 1489; KOIDSUMI, transpiration and heat regulation in insects, 1675; LA FACE, *Anopheles maculipennis* (Dipt. Culic.), origin of hypertrophy in fat-body, 1742; MEYER, absorption of vegetable colouring matter in the body of Lepidopterous larvae, 2032; SEMICHON, new element in fat-body of Lepidopterous larvae, 2790; WIGGLESWORTH, *Rhodnius prolixus* (Hem.), factors controlling moulting, 3294.

AETIOLOGY.

Evolution, Phylogeny.

ARNOLDI, phylogenetic development of generic characters in parasitic ants (Hym.), 85; BETTEN, Trichoptera, phylogeny, 261; BÖRNER, phylogeny of Rhynchota, 348; CARADJA, evolution of palaearctic Lepidoptera, 489; HORA, Tonnoir's theory of evolution of the ventral suckers of Dipterous larvae, 1388; HORMUZAKI, origin of European Macrolepidoptera, 1399, 1400, 1403; HOWCHIN, evolution of fauna of S. Australia, 1418; JUST, evolution of adaptive characters in insects, 1552; KAWADA, Saturniidae, phylogeny, 1590; KOZHANTCHIKOV, Agrotinae (Lep. Noct.), evolution of Arctic spp., 1716; MANSOUR, phylogenetic classification of Coleoptera, 1927; MARTIN & COTNER, protein reactions of some moths an index to phylogenetic relationships, 1956; MORDVILKO, evolution of Aphids (Hem.), 2074, 2075; ZEUNER, connection between form and function of organs, in Coleoptera, 3386, evolution of stridulatory organ of locusts, 3388.

Genetics.*

ASTAUROV, *Bombyx mori*, effect of γ -rays on occurrence of sex-paired lethal factors, 92; BAEHR, heredity and sex determination, 108; BOSTIAN, *Habrobracon* (Hym.), biparental males and ratios, 351; BOVEY, *Zygaena*

ephiates and var. *peucedana* (Lep.), crossing, 359a; BUCK, SCHOUTE & SWELLENGREBEL, *Anopheles maculipennis*, cross-breeding experiments with Dutch and foreign races, 435; CORBET & PENDLEBURY, heredity in Malayan butterflies, 638; CORRADETTI, *Anopheles maculipennis*, crossing of varr. 644; CSIK, *Drosophila melanogaster*, effect of collaboration of genes on wing size, 677; FØYN, *Drosophila*, chromosomes and inheritance, 966; GERSHENSON, *Drosophila obscura*, mutant genes in wild population, 1061, affinity of homologous chromosomes in Diptera, 1062; GOLDSCHMIDT, *Lymantria dispar* (Lep.), 1107; GOTTSCHIEWSKI, *Drosophila melanogaster*, effect of heat on mutations, 1117; GOWEN, *Drosophila*, inheritance of focal melanosis, 1120; GREG, *Habrobracon juglandis* (Hym.), modification of genetic characters, 1132, 1133; GYUL' BENKYAN, *Drosophila melanogaster*, mutations induced by X-raying soma, 1180; HAGEDOORN, mutation and inheritance, 1185; HANDSCHIN, *Spalangia sindaica, orientalis* (Hym. Pteromalid.), results of crossing, 1193; HANSON & HEYS, *Drosophila melanogaster*, effect of age on rate of mutation induced by x-rays, 1201; HARNLY, *Drosophila melanogaster*, effects of temperature on dimorphos and vestigial mutations, 1212; JOHNSTON & WINCHESTER, *Drosophila melanogaster*, reverse mutations, 1529; JUCCI, *Bombyx mori*, inheritance of blood- and cocoon-colour, 1545, 1546, 1547; KEARNS, *Cephalonomia* (Hym. Bethyl.), method of wing inheritance, 1592; KERKIS, *Drosophila melanogaster*, mechanism of triploid intersexuality, 1607; KOSMINSKI & HOFMAN, *Bombyx mori*, inheritance of cocoon colour, 1705; KÜHN, *Ephestia kühniella* (Lep. Pyral.), mutation and wing-pattern, 1729; L'HÉRITIER & TEISSIER, *Drosophila*, curve of elimination of the gene "bar," an experiment in Natural Selection, 1799; MAKINO & KICHJO, *Stenopsyche griseipennis* (Trichopt.), female heterogamety, 1904; MORIWAKI, *Drosophila melanogaster*, lethal mutations induced by x-rays, 2082; NABOURS & KINGSLEY, *Apolettix eurycephalus* (Orth.), lethal factor, 2128; NEIGAUZ, *Drosophila melanogaster*, effect of x-rays on mutation in sex-cells, 2166, 2167; PROKOF'EVA, *Drosophila melanogaster*, morphological structure of chromo-

* See also under Section I., General Zoology.

somes, 2435; RAMACHANDRA RAO, chromosomal aberrations in un-irradiated grasshoppers (Orth.), 2471; REED, possible polyploidy in Hymenoptera, 2500; RÜSCHKAMP, discussion of present position of Mendelian theories 2623; SPEICHER, *Habrobracon* (Hym.), temperature effective period in development of "eyeless," 2875, 2876, *Habrobracon juglandis* (Hym.), impaternate females, 2877; TAN & LI, *Harmonia axyridis* (Col. Coccin.), inheritance of elytral colour patterns, 3004; TARSIA IN CURIA, *Trioxa alacris* (Hem. Psyll.), inherited symbiosis, 3007; WHITING, *Habrobracon juglandis* (Hym.), eye-colours in multiple recessives and in mosaics, 3290, genetic proof of selective fertilisation in *Habrobracon* (Hym.), 3291; ZARAPKIN, *Drosophila funebris*, genetical analysis of body-size in wild population, 3373.

Variation.

BEQUAERT, *Polistes versicolor* (Hym.), colour variation, 231; BEURET, geographical variation of *Lycaeides argyrognomon* (Lep. Lycaen.), 262; BISCHOFF, *Chrysis ignita*, ecological race-circle, 280; BOYD, *Angitia cerophaga fenestralis* (Hym. Ichn.), 361; CARTER, *Aricia agestis* (Lep.), range of variation, 505; CORBET & PENDLEBURY, Malayan butterflies, 638; EZHIKOV, individual variability in social insects, 887, *Drosophila melanogaster* and *Carausius morosus*, influence of temperature on variation, 888; GOLDSCHMIDT, *Lymantria dispar* (Lep.), 1107; GÜNTHER, *Eparchus* (Phasm.), local variation in Malay Archipelago, 1167; HELDMANN, markings in wasps (Hym.), 1261; HIROSE, *Libythea celtis celtoides* (Lep.), wing patterns, 1355; KLEINSCHMIDT, parallelism between geographical forms in Nymphalidae and eagles, 1646; KOMAROV & ALPATOV, variation in body weight and reproductive system in queen bees as racial characteristics, 1680, 1681; LOBASOV & SMIRNOV, *Drosophila melanogaster*, nature of action of chemical agents on mutational process, 1842; MICHELMORE & ALLAN, phases of *Nomadacris* (Orth. Acrid.), 2042; MOORE, *Drosophila* (Dipt.), frequencies of visible mutations produced by x-rays, 2072; MORDVILKO, derivation of mutations and their relations in Aphids, 2075; PAULIAN, application of

Lameere-Smith formula to Coleoptera, 2307; QUERCI, *Pieris rapae*, 2462; SOKOLOWSKI, variation in Polish Orthoptera, 2864; ZARAPKIN, *Carabus* spp. (Col.), geographical variation, 3372; ZIMMERMANN, *Epilachna chrysomelina* (Col. Coccin.), genetics of geographical variation, 3397.

Colour.

BARTHE, *Carabus auronitens*, phases of pigmentation, 173; BORROR, *Argia moesta* (Odon.), colour changes, 350; BUONOCORE & MALUCELLI, *Bombyx mori*, coloration of cocoons, 446; CORBET & PENDLEBURY, Malayan butterflies, 638; GIERBERG, *Carausius morosus*, physiology of colour change, 1070; GILLET, *Triatoma rubrofasciata* (Hem. Reduv.), colour variation, Proc. R. ent. Soc. Lond. 9 p. 4; JANDA, *Tenebrio molitor* (Col.), effect of radium and ultra-violet light on colour in pupa, 1499; JUCCI, *Bombyx mori*, colour of cocoon, 1546, 1547; LAL, seasonal colour changes in Scottish Psyllids, 1750; NORDMAN, *Polysphincta percontatoria* (Hym. Ichn.), premature formation of imaginal pigment in larvae, 2206; PRZIBRAM & LEDERER, components of green pigment in Orthoptera, 2451; SCHLOTTKE, *Habrobracon juglandis* (Hym.), influence of oxygen concentrations on pigment, 2688; TENENBAUM, *Epilachna chrysomelina* (Col. Coccin.), colouring process in elytra, 3016; TIRELLI, *Bombyx mori* (Lep.), pigment of egg, 3060.

Melanism.

BRETSCHNEIDER, inherited melanism in Lepidoptera, 378; HASEBROEK, industrial melanism in Lepidoptera, 1220-1222.

Dimorphism.

EZHIKOV, dimorphism in social insects, 887.

Mimicry and Protective Coloration.

BARANOV, *Vespoctera petiolata* (Dipt. Tach.), 150; BREE, Lepidoptera attacked by flycatchers, 375; BRINDLEY, butterflies and Hemiptera captured by birds, Proc. R. ent. Soc. Lond. 9 p. 68, 69; CARPENTER, attacks of birds and other enemies on butterflies, 500-502, Proc. R. ent. Soc. Lond. 9

pp. 79, 143 fig.; CORBET & PENDLEBURY, Malayan butterflies, 638; FROHAWK, protective coloration in British butterflies, 991; HEIKERTINGER, criticism of mimicry in Papilionidae (Lep.), 1251; HOFFMANN, *Rothschildia arethusa* (Lep. Saturn.), 1367; JONES, birds feeding on insects, 1531, 1532; KENWAY, attacks of birds on butterflies, 1605; LEVER, association of *Euploea* with *Danarus*, Proc. R. ent. Soc. Lond. 9 p. 57; MCATEE, criticism of mimicry, 1870, 1872; MCKEOWN, insect food of birds and trout in N.S. Wales, 1890, 1891; MUHLMANN, experiments in mimicry, 2103; MYERS, attacks of birds on moths, Proc. R. ent. Soc. Lond. 9 p. 58; NEWMAN, mimicry and protective coloration in Lepidopterous larvae, 2173; POULTON, protective adaptations and enemies of insects, 2412-2414, 2416-2418, Proc. R. ent. Soc. Lond. pp. 40, 42, 45, 70, 71, 74; RIDLEY, protective and warning characters, 2538, geckos and distasteful moths and luminous Col. larva, 2539; SEITZ, *Semele* (Lep. Satyr.), 2781; SIMES, *Oedipoda germanica* (Orth.), protective resemblance, 2824, enemies of butterflies in S.E. France, 2825; THOMAS, *Carausius morosus*, protective immobility, 3044; ZÜLLICH, discussion of mimicry, 3401.

Gynandromorphs, Intersexes.

ANKEL, gynandromorphs and intersexes in honey bees, 73; ARAKI, *Papilio bianor japonica* (Lep.), gynandromorph, 78; BANDERMANN, *Lymantria dispar* (Lep.), 143; BREIDER, occurrence of rudimentary hermaphroditism after crossing, 377; CARPENTER, *Kallima inachus* (Lep.), apparent gynandromorph, Proc. R. ent. Soc. Lond. 9 p. 46; ECKERT, *Apis mellifera*, 811; ESAKI, Japanese and Formosan gynandromorphs, list, 852; GOLDSCHMIDT, *Lymantria dispar*, 1107, 1108; HERING, intersexes, gynandromorphs, Lepidoptera, 1302; SUZUKI, *Homocoryllus japonicus* (Orth. Gryll.), gynandromorphs probably result of x-rays, 2959.

Hybrids.

BRYSK & EISNER, *Parnassius*, new hybrids, 432; BYTINSKI-SALZ, *Celerio* × *Pergesa* (Lep. Sphing.), cytology and fertility, 468; COUSIN, *Achaeta campestris* ♂ × *bimaculata* ♀ and vice versa producing fertile hybrids (Orth. Gryl-

lid.), 657; DANNENBERG, *Celerio centralasiae* ♂ × *Pergesa elpenor* ♀ (Lep. Sphing.), 704; EBERHART, new Sphingid hybrids (Lep.), 807; FISCHER, *Celerio*, new hybrids, Int. ent. Z. 28 pp. 369-371; HAWKINS, *Erannis aurantiaria, defoliaria*, probable natural hybrid between, Proc. R. ent. Soc. Lond. 9 p. 6; KAPIŃSKI, *Pityophthorus* (Col. Scoly.), new hybrids, 1582; KERRIS, *Drosophila melanogaster* × *simulans*, hybrids, 1606; KOTZSCH, *Papilio sesostris* × *orellana*, new hybrid (Lep.), 1709; ROSCHLAU, *Antheraea pernyi* × *yamamai* (Lep. Saturn.), 2578; RYDBERG, new Sphingid hybrids (Lep.), 2629; SHAPIRO, *Drosophila* hybrids, 2804; SWEADNER, cross-mating of *Samia* and *Platysamia* (Lep.), 2962.

Teratology.

ALESSANDRI, *Smerinthus populi* (Lep. Sphing.), atrophy of wings in ♂, 25; ALEXINSCHI, *Arctia hebe* (Lep.), inversion of secondary sexual markings, 37; COCKAYNE, spiral and other anomalous forms of segmentation in insects, 590; DALLAS, *Lytta centenaria* (Col. Meloid.), 701; ECKERLEIN, eye-spots lacking in Saturniids, 810; HERING, *Carpocapsa saltitans* (Lep. Tortric.), pupa with larval characters, 1305; HOFFMANN, *Anchondidium unguiculare* (Col. Curc.), abnormal prothorax, 1365; HOFFMANN, *Aquarius paludum* (Hem.), abnormal tibia in nymph, 1374; IONESCO, abnormalities in *Protura*, 1469; KEILBACH, asymmetry in wings of insects, 1594; KERRICH, *Metacoelus mansuetor*, abnormal head, 1609; KÜL, *Camponotus* spp. (Hym. Formic.), abnormalities in head, 1616; LUIGIONI, *Abax exaratus* (Col. Carab.), abnormal antennae, 1860; NATVIG, Culicid hypopygia (Dipt.), 2135; ROOT, *Anopheles pseudopunctipennis*, abnormal parabasal spines in ♂ hypopygium, 2577; WARNECKE, asymmetry in wings in Lepidoptera, 3221.

Factors influencing Population.

ANDREWARTHA & STEELE, *Thrips imaginis* (Thysanopt.), fluctuations in numbers near Melbourne 1932-34, 68; BARNES, *Rhabdophaga heterobia* (Dipt. Cecid.), fluctuation in population, 167; BIGGER, *Agonoderus pallipes* (Col. Carab.), effect of rotation of crops on abundance, 274; BRUNSON, *Tiphia popillivora* (Hym. Scol.), fluctuation in population, 423; CALVERT, *Anax* spp.

(Odon.), seasonal distribution, 470; CHAPMAN & BAIRD, *Tribolium confusum* (Col. Tenebr.), 524; CHAPMAN & WHANG, *Tribolium confusum* (Col. Tenebr.), 525; DAVIDSON, *Smythyrus viridis* (Collemb.), 712, effect of seasonal variability on insect populations in deciduous forests, 713; EVANS, *Thrips imaginis*, numbers directly dependent on meteorological conditions, 878; FOERSTER, general discussion, 955; FULLER, influence of physical factors on blowfly population of carrion, 1000; GAUSE, quantitative relations in insect epidemiology, 1045; HÉRITIER, *Drosophila melanogaster* (Dipt.), effect of various factors on population, 1317; JANCKE, *Aphelinus mali* (Hym.), capacity for spreading, 1497; MA, drought and insect outbreaks, 1869; PARK, *Tribolium confusum*, 2287; SCHMIEDEL, factors contributing to decline in numbers of German Lepidoptera, 2695; SCHMITH, bird protection and numbers of insects, 2696; SCHÖNWIESE, *Lophyrus sertifer* (Hym. Tenth.), factors causing unusual increase in numbers, 2715; SEITZ, factors influencing Lepidoptera population in Angora, 2780; SMIRNOV & POLEZHAEV, *Lepidosaphes ulmi* (Hem. Cocc.), effects of overcrowding, 2844-2846; STANLEY, *Tribolium confusum*, 2893; STARKE, diminution of Lepidoptera due to deforestation and attacks of birds, 2898; TAKANO, *Ceratovacuna lanigera* (Hem. Aphid.), relation of outbreaks to environmental condition, 2994; VAYSSIÈRE, effect of vegetation, climate and moisture on population density in migratory locusts, 3163; ZWÖLFER, *Lymantria monacha* (Lep.), relation of population to length of early stages, 3405.

ETHOLOGY.

Ecology.

Notices of publications on animal ecology, J. Anim. Ecol. 3 pp. 117-127; ASTFALLER, Lepidopterous fauna of Mt. Gazza-Paganella, Trentino, 93; BEK-LEMISHEV, *Anopheles maculipennis* (Dipt. Culic.), optimum of height and density of vegetation, 200; BERGMANN,

Arctia aulica montana (Lep.), 237; BERLAND, insect fauna of the air, 241; BODENHEIMER, seasonal and diurnal appearance and activity of Palearctic Coleoptera, 305; BORROR, *Argia moesta* (Odon.), ecological studies by means of marking in U.S.A., 350; BRITTEN & WILLIAMS, insect fauna of pond surroundings in Lancashire and Cheshire, 392; BRUNDIN, ecology of Coleoptera of Torneträsk district, Swedish Lapland, 419; BUXTON, *Anopheles tarsimaculatus*, chemical factors affecting breeding in Trinidad, 463; COLE, seasonal successions of ants in sagebrush semi-desert, communities of a sand-dune area, U.S.A., 608, 610; DARLING, Acrididae, Sudan, 708; DAVIDSON, precipitation and saturation deficit in Australia in relation to insect ecology, 712a; DAVIES, ecology of Collembola of N. Wales, 715; DAVIS, insect inhabitants of rodent nests in California, 716, 718; DINGLER, insect fauna of asparagus fields, 748; DRENOWSKI, Lepidopterous fauna of Ali-Botusch Mts., Macedonia, 783, 784; DUPONT, Sesiidae and Pyralidae of limestone in Normandy (Lep.), 799; EASTERLING, insect fauna of a coniferous reforestation area in S.E. Ohio, 806; EIDMAN, insect fauna of S. Labrador, 830; FOLSOM & WARDLE, Entomology with special reference to its ecological aspects, 956; FRIEDERICH, Embioptera, 984; FULLER, insect inhabitants of carrion, 1000; GERMAIN, insects of islands of the west Mediterranean, 1059; GOLDING, Acrididae, near Lake Chad, 1106; HAUPT & HEDICKE, insect fauna of sand dunes of Bellinchen (Oder), 1229; HEDICKE & MICHALK, ecology of Heteroptera of Mark Brandenburg, 1250; HEIM DE BALSAC, *Chionea lutescens* (Dipt. Tipul.), 1255; HORION, impoverished Coleopterous fauna of the newly drained Lindner Moors near Wahn, Rhine Prov., 1396, Coleopterous fauna of moles' nests in the Rhine Province, 1397; HORVÁTH, insect fauna of E. Carpathians and Pyrenees compared, 1409; HULL, DOVE & PRINCE, *Culicoides dovei* (Dipt. Ceratopog.), seasonal incidence of larvae in salt-marshes, 1428; IONESCU, insect fauna of beechwoods of Sinai and Valea Prahovei, 1466; JANISCH, optimum conditions for insects, 1500; JANNONET, *Dociostaurus maroccanus*, *Calliptamus italicus* (Orth. Acrid.), Naples, 1501; JØRGENSEN, microfauna of soil in E.

Greenland, 1543; LINDBERG, Coleoptera of high northern biotopes in N. Petsamo, Finland, 1819; LINDROTH & PALM, ecology of Coleoptera of Norwegian coast, 1831; MAYER, Ceratopogonidae (Dipt.), 1987; MELNICHENKO, *Loxostege sticticalis* (Lep.), breeding grounds in western Russia, 2010; MOON, fauna of littoral region of Lake Windermere, England, 2070; MORIN & BADER, *Anopheles*, chemical analyses of waters in Tonkin and their relation to larval ecology, 2081; OLIVIER, cretaceous and diluvial Lepidopterous fauna of Normandy compared, 2243; ORTENBURGER & BIRD, insect fauna of western Oklahoma salt plains, 2257; PEARSON, ecology of bees of Chicago, 2319; PEUS, Dixidae and Culicidae of the Oder district, 2342; RANDON, ecological distribution of Orthoptera of Bas-Languedoc, 2480; RAU, insect fauna of a fallen sand-box tree on Barro Colorado I., 2481; REGNIER, insect fauna of canker of poplars, 2505; RENOUF, Hemiptera inhabiting a salt marsh on south coast of Co. Cork, 2527; RICHARDS, some quantitative methods for the analysis of insect associations, 2534; ROGERS, ecological distribution of crane-flies in northern Florida, 2558; ROUBAL, Coleopterous fauna of Trebon (Wittingau) Moor, S. Bohemia, 2598; SCHUBERT, insect fauna of moors in Silesia, 2724, 2725; SEHL & WARNKE, insect fauna of Frische Nehrung, N. Germany, 2775; SOKOLOWSKI, ecology of Polish Orthoptera, 2864; STILLER, influence of spring floods on beetle fauna near Szegeed in 1932, 2917; STOECKHERT, bees of Franconia, 2920; TIESSU, ecology of Odonata of Sortavala, Finland, 3056; VOLZ, Collembola in woodland soil, Germany, 3189; WARNECKE, microclimate and the distribution of Lepidoptera, 3218; WOLCOTT & MONTGOMERY, Coleopterous fauna of tamarack swamp in Indiana, 3317; YAGI, *Chilo simplex* (Lep. Pyral.), isodevelopmental zonation in Japan, 3338; ZOLOTAREVSKY, *Schistocerca gregaria* (Orth. Acrid.), French Sudan, 3400.

Hydrobiology.

BRANDT, insect fauna of tree-holes in *Fagus silvatica*, 369; HORA, ecology of larvae of torrential Lepidoptera, 1389; HUBAULT, insect fauna of underground waters of Aquitaine basin, 1421;

IMANISHI, *Epeorus* (Ephem.) of Japanese torrents, 1458; JAKUBISIAKOWA, Trichoptera of Kiekrz Lake, Poland, 1490; KARNY, biology of aquatic insects, 1579; KOEPEL, resistance of Ephemeroptera to currents, 1669; KRACH, aquatic Coleoptera of Lake Kiekrz, Poland, 1718; KRUSEMAN, Chironomids of brackish water, 1726; NEAVE, insect fauna of Lake Winnipeg, 2163; PEARSE, insect fauna of brackish water ponds of Dry Tortugas, 2318; PEUS, hydrodynamics of breeding places of Chaoborinae (Dipt. Culic.), 2341; RAWSON, insect fauna of lakes of Kamloops district, British Columbia, 2484; RICKER, insect fauna of Ontario streams, 2537; STROUHAL, insect fauna of warm springs in Carinthia, 2934; THIENEMANN, insect fauna of water collected in leaf-axils, etc., in tropical plants, 3036; UENO, freshwater insects of Kamikôchi, Japan, 3121, inland water fauna of N. Kurile Is., 3122.

Cavernicolous.

ANDREUCCI, insect fauna of a cave in Tuscany, 66; BOLDORI, insects of Italian caves, 329; BONET, cavernicolous Collembola of Virginia, Kentucky and Indiana, 336; CHOPARD, new Orthoptera, 557; GEBHARDT, insects of caves of Abaligefer and Mánfaer, Hungary, 1048; GIOVANNOLI, insects of Mammoth caves, Kentucky, 1083; GRIEPENBURG, insects of caves and beer-cellars in Westphalia, 1143; IVES, insects of Tennessee caves, 1478; JEANNEL, various European cave insects, 1509-1513, 1515; LERUTH, Dryomyzidae, Helomyzidae, Phoridae (Dipt.), of caves of Belgium and Dutch Limbourg, 1782, 1783; REESE, W. Virginia caves, 2502; SCHMITZ, *Triphleba* sp. n. (Dipt. Phor.), 2698; SILVESTRI, Thysanura, 2818, 2820, 2821; STACH, *Onychiurus* (Collemb.), European spp., 2887, 2888; WEBER, *Paratrechina* sp. n. (Hym. Formic.), Cuba, 3245; WOLF, list of cavernicolous insects, 3318a.

Insects, Plants and Flowers.

AMSEL & HERING, leaf-mining insects of Sardinia, 55; BRITAIN & NEWTON, pollen constancy of bees, 389; BRUG, Culicidae (Dipt.) from *Nepenthes* in Borneo, 415; BUGDANOV, Coccidae

and their food-plants in eastern foothills of N. Caucasus, 439; CAPPE DE BAILLON, FAVRELLE & VICHET, food-plants of Phasmids (Orth.), 481; COLEMAN, *Culex* sp. pollinating orchids, 611; ECKSTEIN, food-plants of German Microlepidoptera, 813; ESSIG & MICHELBAEHR, *Hypera postica* (Col. Curc.), food-plants, 872; GILLETTE & PALMER, food-plants of Aphids, Colorado, 1074; HAMM, Syrphidae (Dipt.) and some flowers they visit, England, 1188; HERING, insect miners of *Phyllyrea*, 1303, problems of investigating leaf-mining insects, 1307, some mining insects in China, 1311, insects mining *Quercus*, *Ranunculus*, *Salix*, 1315; HERIOT, penetration of tissues by sucking insects, 1316; HERTZ, bees and flowers with concealed nectaries, 1320; HESSE, insects associated with *Gnidia laza*, S. Africa, 1322; JANCKE, *Agelastica alni* (Col.), food-plants, 1496; KIRICHENKO & TALITZKI, food-plants of Hem.-Het. of S.E. Ukraine, 1632; KLEINE, Scolytids and their food-plants, 1644; LEBEDEV, the constant relation between bees and plants, 1757; MARCHAL, elm Aphids, France, 1931; MAYNÉ & GUESPIÈRE, food-plants of Hemiptera, Belgian Congo, 1991; MIMÉUR, food-plants of Aphids of Morocco, 2055; NAINGGOLAN, ants associated with rattans in Sumatra, 2133; NICHOLSON, insect visitors of *Araujia sericifera*, England, 2180; OLBERG, butterflies visiting flowers, Germany, 2242; PALM, Coleopterous fauna of Sphagnum moss, Sweden, 2273; PEYERIMHOFF, Coleoptera associated with conifers in N. Africa, 2349; PHILLIPS, some Hawaiian poisonous plants attacked by sucking insects, 2352; RIBEIRO, insect fauna of *Mormordica charantia*, Calcutta, 2533; RONNA, catalogue of insects hitherto found on plants in Rio Grande do Sul, 2575; RYDÉN, Swedish leaf-mining insects, III, 2630; SÉGUY, Diptera living on *Iris*, 2765, list of food-plants of phytophagous flies of W. Europe, 2772; SKWARRA, association of ants and plants in Mexico, 2836, 2837; VAN STEENIS, *Procordulia sumbanana*, (Odon.), spreading seeds of *Myriactis javanica*, 2903; THIEM, *Rhagoletis cerasi* (Dipt. Tryp.), behaviour towards wild food-plants, 3033; VONWILLER, insect-eating plants, 3190; YAKHONTOV, *Hypera variabilis* (Col. Curc.), food-plants, 3340.

Galls.

BAUDYŠ, galls of Slovakia, 184, 185; HOIARD, galls of U.S.A. (2nd ser.), 1414; MASI, *Andricus lucidus*, commensals and parasites in galls, 1964; VAN DER MEER MOHR, insects in galls on *Styrax*, 1994; NOURY, Cynipid galls on *Quercus toza* in France (Hym.), 2210; PETERS-POSTUPOLSKA, structure of galls made by *Mecinus linariae* (Col. Curc.), 2337; SZULCZEWSKI, insect-galls in Poland, 2978, 2979; TAKAHASHI, association of different spp. of thrips in galls, Japan, 2982, *Astegopteryx* spp. (Aphid.) producing galls on *Styrax*, Japan, 2987, 2991; WELLS, cytological and phylogenetical differences in insect and other galls, 3255.

Feeding Habits.

BACKLUND, *Menopon biseriatum* (Malloph.), 107; BERNARD, prey of some French Hymenoptera, 246; BETTEN, of adult and larval Trichoptera, 261; BOETTGER, Coleoptera feeding on snails, 318; BUICHKOV, Staphylinids predacious on fleas, 442; CAMERON, *Haematopota pluvialis* (Dipt. Taban.), 472; CHATTERJEE, food-supply of Mantids, India, 1373; DAVIDSON, *Smyntarus viridis* (Colemb.), 712; DAVIS et al., *Diatraea grandiosella* (Lep. Pyral.), 719; GOSSWALD, *Dendrolimus pini* (Lep.), factors influencing feeding activity, 1114; HICKS, *Sphex xanthopterus*, capture and stinging of prey, 1332; HOBBY, predacious habits of Anthomyiidae, 1357, food of Telephoridae (Col.), 1359, predacious Diptera and their prey, 1360; HOBBY & KILLINGTON, British Mecoptera, 1362; HOFFMANN, *Sycanus croceovittatus* (Hem. Reduv.), 1371; HORO, larvae of torrential Lepidoptera, 1389; HUTCHINGS, praying mantis, Canada (Orth.), 1443; JORDAN, food of aquatic bugs, Tyrol, 1538, 1540; KATAYAMA, *Cerceris navitatis* (Hym.), 1585; KUSTER, *Stratiomyia*, *Odonotomyia* (Dipt.), 1735; VON LENGERKEN, Coleoptera feeding on snails, 1776; LÜHMANN, *Galerucella viburni* (Col.), 1859; MARTIN, *Eumerus tuberculatus* (Dipt. Syrph.), 1953; MASUDA, *Pasaloecus shuckardi* (Hym. Spheg.), prey, 1969; MAYER, food of larvae of Ceratopogonidae (Dipt.), 1985; MICHALK, *Arma custos* (Hem. Pent.), cannibalism, 2039; MNKIEWICZ, Polish Sphegids, 2056; MYERS, Crabronids

storing Collembola, Trinidad, 2126; NORRIS, drinking habits of Lep. in Austrian Tyrol, 2208; PAINE, *Megarithinus* (Dipt. Culic.), 2270; RAU, *Vespa maculata*, stalking prey, Bull. Brooklyn ent. Soc. 29 p. 171; SCHUMANN, *Ploiariola culiciformis* (Hem.), predacious habits, 2742; SPOONER, *Odynerus herrichi* (Hym.), prey, 2882, *Metacrabro quadricinctus* (Hym.), ejected Dipterous prey, 2883; USINGER, blood-sucking among phytophagous Hemiptera, 3131; WEBER, Microlepidoptera, 3246; WILSON, *Lipeurus heterographus* (Malloph.), food and feeding habits, 5307.

Phenology.

D'ANCONA & NANNIZZI, *Hyponomeuta padellus* (Lep. Tin.), swarming in Tuscany, 59; BARNES, instances of flies swarming, 166; BIGGER, *Agonoderus pallipes* (Col. Carab.), times of flight in Illinois, 274; DAVIDSON, phenology and seasonal variability in deciduous forests, 713; DOE, abnormal appearances of Lepidoptera in Devon in 1933, Rep. Devons. Ass. Adv. Sci., Torquay 66 pp. 126-127; DÖRING, phenology of Lepidoptera in Germany in 1930-1932, 764, 765; FINLAYSON, *Thopa colorata* (Hem.), swarming, 928a; FINKE, swarming of Pieridae in Germany in 1934, 927, 928; GUNTON, phenology of resident English Lepidoptera, 1172; HAMAKER, *Hippodamia convergens* (Col. Coccinell.), swarming in July in N. Carolina, 1187; IOAKIMOV, *Acantholyda erythrocephala* (Hym. Tenthred.), swarming in Bulgaria, 1462; JÜNGLING, *Pieris daphidice* (Lep.), swarming in Prussia, 1549; LEWIS, swarming habits of some W. African Dipt., 1796; MARPLES, *Cricotopus sylvestris* (Dipt. Chiron.), swarming in columns 40-70 feet high, 1945; MULLEN, *Diploneura nitidula* (Dipt. Phorid.), swarming in New York City, 2108; REUTER, insects in Finland, 2528; RUSCINSKY, *Vibidia duodecimguttata* (Col. Coccin.), swarming in Bessarabia, 2625; SOKOŁOWSKI, phenology of Polish Orthoptera, 2864; STILLER, mass occurrence of beetles in regions of Szeged, Hungary, 2918; TIENSU, phenology of Odonata of Sortavala, Finland, 3056; WASSINK, phenology of Libellulids of Deuten Moor, Germany, 3228; WILSON & BOURKE, phenology of insects in Ireland in 1933, 3308.

Social Life.

EVANS, *Perga dorsalis* (Hym. Tenthred.), larval community behaviour, 879; STEINER, division of labour in colony-forming Hymenoptera, 2906.

Bee Life.

ATWOOD, biology of *Halictus* and *Andrena*, N. America, 96; BLÜTHGEN, hosts of palaearctic *Sphecodes* (Hym. Apid.), 304; FRANSSEN, *Apis indica*, 971, 972; GEORGE, *Melipona iridipennis* (Hym. Apid.), 1057; MEIDELL, *Bombus* spp., habits, 1999; NIELSEN, habits of some Danish solitary bees, 2184; PLATH, bumblebees and their ways, 2387; PRESSWALLA, *Apis indica* (Hym.), 2424; RAU, stingless bees of Barro Colorado I., habits, 2481; SCHUITMAKER & FRANSSEN, bees and their use of resin, 2728.

Ant Life.

COLE, semi-desert ants, 610; EIDMANN, *Atta sexdens*, 829; GOETSCH, various reactions among ants, 1101-1103; GÖSSWALD, basic principles in development of parasitism by ants newly shown by habits of *Epimyrma gösswaldi*, 1111, ant guests and parasites in Germany, 1112; GRASSÉ, *Oecophylla smaragdina*, transport of prey, 1130; HARRIS, *Myrmecocystus hortideorum* storage of honey in abdomen, 1214; KÜL, division of labour, 1615; MANN, 1925; RABAUD, ants helping each other, 2465; SKWARRA, Mexican ant-plants, 2836, 2837; STÄRCKE, mixed colonies in ants, 2895; TERANISHI, Japanese spp., 3017; VAN LEEUWEN, ant plants and ant gardens, 3153; WASMANN, biology of ants and their guests, 3227; WHEELER & CREIGHTON, *Novomessor*, *Vermessor*, biology, 3286.

Myrmecophily.

EIDMANN, *Atta sexdens*, 829; TAEUBER, an attophile Reduviid, S. America, 2980; WEST, beetle-guests of British ants (Col.), 3271.

Termite Life.

CASTLE, *Zootermopsis angusticollis* (Isopt.), caste differentiation, 508; HANDSCHIN, mixed colonies in termites, 1191; HARE, caste determination, 1210; HENDEE, *Zootermopsis angusticollis*, rôle of fungi in diet, 1282;

KEMNER, termites of Java and Celebes, biology, 1600; JACOBSON, Cetoniid (Col.) as guest of termites, 1484; KOFOID et al., termites and their control, 1671; WASMANN, biology of termites and their guests, 3227.

Symbiosis.

ASCHNER, *Pediculus* (Anoplura), elimination of symbionts by centrifugalisation of the eggs, 90; BAKKEN-DORF, symbiotic cells in Mymarid and Trichogrammatid larvae, 117; CLEVELAND, *Cryptocercus punctulatus* (Orth. Blatt.), protozoal symbionts, 584; FRANSSEN, geckos living with *Apis indica*, 970; HEYMONS, *Passalus* spp. (Col.), intestinal flora, 1328; KOCH, effects of removal of symbionts in insects, 1663; SULO, symbiosis of insects and yeasts, 2948; TARSIA IN CURIA, *Trioza alacris* (Hem. Psyll.), hereditary symbionts, 3007; VAN LEEUWEN, *Asphondylia bursaria* (Dipt. Cecidom.), symbiotic with fungus, forming galls, 3154.

Instincts, Tropisms.

CARMIN & SCHEINKIN, *Aonidiella aurantii* (Hem. Cocc.), 492; COLLART, *Microsania* spp. (Dipt. Clythiid.), attracted to smoke, 618; COLLINS, *Cydia pomonella* (Lep. Tortric.), reactions to light, 626; GOETSCH, orientation to food in ants, 1101; GROZDANIĆ, *Cicindela campestris* (Col.), negative tropisms, 1147; HUSAIN, KHAN & RAM, *Platyedra gossypiella* (Lep. Tin.), phototropism, 1433; IVES, phototropism, 1478; KLEIN, reaction of insects to light, 1638; VON LENGERKEN, social instincts in dung beetles, 1774; LUDWIG, *Porthetria (Lymantria) dispar* (Lep.), phototropism in larvae, 1856; LUTZ, "buckwheat problem" and behaviour of bees, 1866; LUTZ & GRISEWOOD, *Drosophila melanogaster*, reaction to 2357Å radiation, 1867; MCINDOO, chemoreception in whole and mutilated blowflies, 1889; MADLE, *Aphodius rufipes* (Col.), phototaxis, 1894; MAIDL, social insects, 1900; MOLITOR, memory of place and instincts of nest provisioning in digger wasps (Hym. Spheg.), 2064; OEHRING, *Chironomus* (Dipt.), reactions to light in larva, 2227; PARROTT & COLLINS, *Cydia pomonella* (Lep. Tortr.), phototropism, 2295; PICTET, instincts and

survival, 2379; PROUTY & COATNEY, *Pseudolynchia maura* (Dipt. Hippobosc.), tropisms, 2444; SANDER, reaction of bees to lights of various wave lengths, 2643; SMIRNOV & KUZINA, *Mormoniella vitripennis* (Hym. Pteromal.), host preference, 2843; VON STEIN-BELING, *Nemeritis canescens* (Hym. Ichn.), importance of olfactory sense in return to host, 2905; THOMAS, general, 3043-3046; VERLAINE, communication in wasps, 3172, larval wasps making coverings for the cells, 3173, *Bombus* (Hym.), determination of male sex, 3173; WEYRAUCH, passive or active orientation, 3278; WIGGLESWORTH & GILLET, *Rhodnius prolixus* (Hem. Reduv.), attraction to host by scent and warmth, 3295.

Movements, Attitudes.

ALEKSANDROV, *Callipogon relictus* (Col. Ceramby.), movements of larva, 23; BLAISDELL, *Corticus* (Col. Tenebr.), orientation, 290; BRANDT, *Ephestia kühniella* (Lep.), light orientation, 370, *Ephestia kühniella*, forming of habit of travelling in a given direction, 371; CAPPE DE BAILLON, FAVRELLE & VICHET, concealing postures in Phasmids (Orth.), 481; HORA, method of progression in larvae of torrential Lepidoptera, 1389; KUSTER, *Stratiomyia*, *Odontomyia* (Dipt.), locomotion, 1735; MADLE, *Aphodius rufipes* (Col.), cleaning movements in larva and adult, 1894; VAN DER MEER MOHR, *Cyrestis martinus* (Lep. Nymph.), resting position, 1995; MORLEY, *Blacus paganus* (Hym. Bracon.), dancing habit in ♂♂, 2085; PIERRE, gymnastics of Tipulids while ovipositing, 2382; QUILTER, *Tirumala petiverana* (Lep. Dan.), assembling for night on leafless trees, E. Africa, Proc. R. ent. Soc. Lond. 8 p. 145; ROMAN, movement of beetle and Tortricid larvae in "jumping beans" (Col. Lep.), 2570; SPEYER, *Audeoudia haltica* (Lep. Pyral.), larval movement inside fruit segments of *Spirotachys africana*, 2880; THOMAS, *Carausius morosus* (Orth.), protective immobility, 3044; VÖHRINGER, *Galleria mellonella*, running, flight and jumping of adults, 3187; WOLF, behaviour of bees in waving fields and to moving objects, 3319; ZEISER, *Dytiscus* (Col.), suspension of circus movement by photomenotaxis and negative geotaxis, 3380.

Flight.

BOUNHIOL, *Gryllotalpa gryllotalpa*, 354; JONGBLOED & WIERSMA, *Apis mellifica*, metabolism during flight, 1534; LARSEN, experiments on insects in general, 1754; LÜHMANN, *Galerucella viburni* (Col.), 1859; NICHOLSON, influence of temperature on flight of *Lucilia*, 2179; OMORI, *Parnara guttata* (Lep. Hesp.), ascending flight, 2251; RUSSELL & SANTIAGO, *Anopheles funestus-minimus* group (Dipt. Culic.), flight range, expts. with stained mosquitos, 2626; VON STEIN-BELING, *Nemeritis canescens* (Hym. Ichn.), 2905; STIRRETT, BEALL & LINDSAY, *Pyrausta nubilalis* (Lep., Pyral.), 2919; WAKELAND, *Bruchus pisorum* (Col.), 3210.

Migration.

CRAWFORD, immigrant Lepidoptera in Ireland in 1934, 665; DANNREUTHER, records of insects migrating into Britain, 705; DANNREUTHER & WILLIAMS, insect immigration into Great Britain in 1931-2, 706; ENGELHARDT, tornados and butterfly migration in Texas, Bull. Brooklyn ent. Soc. 29 p. 16; FROHAWK, migration in British butterflies, 991; MORDVILKO, migration of Aphids to various food-plants, 2075; MURRAY-AARON, *Danaus archippus* (Lep. Danaid.), only males migrating, 2122; ØKLAND, *Formica rufa* (Hym.), migration habits, 2241; PITMAN, *Cymothoe caenis* (Lep. Nymph.), migratory flight, Proc. R. ent. Soc. Lond. 8 p. 144; WILLIAMS, British immigrant insects, 3304.

Hibernation.

ANDRE, *Oncopeltus fasciatus* (Hem. Lyg.), 65; COLE, *Pogonomyrmex occidentalis* (Hym. Formic.), 609; DAVIS et al., *Diatraea grandiosella* (Lep. Pyral.), 719; DOUGLASS, *Epilachna corrupta* (Col. Coccin.), 771; EVANS, *Anopheles maculipennis* (Dipt. Culic.), 876; DE FLUITER, *Nygma phaeorrhoea* (Lep.), effect of humidity on hibernation, 954; FROHAWK, British butterflies, 991; HERR, *Taeniothrips gladioli*, 1318; HOFFMANN, *Sycanus croceovittatus* (Hem. Reduv.), 1371; KUSTER, *Stratiomyia*, *Odontomyia* (Dipt.), 1735; MA, *Insecta*, 1868; MORLEY, *Xylophilus populneus* (Col. Hyloph.), 2086; ØKLAND, *Formica rufa* (Hym.), 2241; PLATH, of bumblebees, 2387; RAU,

Vespa maculata, hibernation of queens, Bull. Brooklyn ent. Soc. 29 p. 170; RUMYANTZEV, *Lithocolletis populi-foliella* (Lep. Tin.), 2619; SAKAI, *Deltocephalus dorsalis* (Hem. Jass.), 2640; THEODOR, *Phlebotomus papatasi* (Dipt. Psych.), 3022; YAKHONTOV, *Hypera variabilis* (Col. Curc.), 3340.

Sound Production.

FULTON, rhythm, synchronism and alternation in stridulation in Orthoptera, 1004; GEORGE, *Empoasca devastans* (Hem. Jassid.), 1055; JORDAN, Corixidae (Hem.), 1538; SUZUKI & TESIMA, Gryllodea (Orth.), 2960.

Sex Relations.

ANDRE, *Oncopeltus fasciatus* (Hem. Lyg.), 65; BASINGER, *Pseudococcus gahani* (Hem.), not parthenogenetic, 176; BETTEN, Trichoptera, mating, 261; BUCK, *Photinus pyralis* (Col. Lampyr.), photomechanics of mating attraction, 437; CAPPE DE BAILLON, FAVRELLE & VICHET, pairing in Phasmids (Orth.), 481; CHATTERJEE, *Petaloccephala nigrilinea* (Hem. Jass.), 529; CLANCY, *Tetracnemus pretiosus*, mating, 572; CORRADETTI, *Anopheles maculipennis* (Dipt. Culic.), sexual behaviour, pairing, 643; DAVIS et al., *Diatraea grandiosella* (Lep. Pyral.), 719; DONER, *Microbracon pygmaeus* (Hym.), 758; DOWDEN, *Zenillia libatrix* (Dipt., Tach.), 774; ERMOLAEV, *Lytta vesicatoria* (Col. Meloid.), sexual selection, 850; FARQUHAR, *Fumea casta* (Lep. Psych.), mating, 901; DE FLEURY, *Satyris dryas* ♂ pairing with *Epinephele jurtina* and *E. jurtina* ♂ pairing with *Argynnis aglaia* ♀, *Lambillionea* 34 p. 47; FRIEDERICH, pairing in Embioptera, 984; HANNA, *Euchalcidia caryobori* (Hym.), 1199; HERING, mating of Lepidoptera, 1301; HERR, *Taeniothrips gladioli*, 1318; HOFFMANN, *Sycanus croceovittatus* (Hem. Reduv.), courting, mating, 1371; HUTCHINGS, courting habits of praying mantis, Canada, 1443; JANCKE, *Euvolvulus cupreus* (Col. Curc.), 1498; JANNONE, *Dociostaurus maroccanus*, *Calliptamus italicus* (Orth. Acrid.), pairing, 1501; JORDAN, pairing in aquatic bugs, 1538, 1540; KABURAKI & KURIHARA, *Chilo simplex* (Lep. Pyral.), effect of light on mating, 1553; KÄSTNER, *Raphidia notata* (Neur.), 1584; KHATIB, *Galerucella birmanica* (Col.),

1611; LUNAU, pairing of different species in Odonata, 1863; MARTIN, *Columbicola columbae* (Malloph.), 1955; MATHUR, *Hierodula westwoodi*, *Deiphobe* sp. (Orth. Mant.), 1973; PIERRE, Tipulids (Dipt.), 2382; PROUTY & COATNEY, *Pseudolynchia maura* (Dipt. Hippobosc.), mating and larvapoosition, 2444; RUMYANTZEV, *Lithocolletis populi-foliella* (Lep. Tin.), 2619; TOLMAN, *Epinephle jurtina* ♂ and *Argynnis aglaia* ♀, pairing (Lep.), 3067; VÖHRINGER, *Galleria mellonella* (Lep. Pyral.), 3187; WALDE, *Panorpa communis* (Mecopt.), mating, 3212; WILSON, *Lipeurus heterographus* (Malloph.), 3307; YAKHONTOV, *Hypera variabilis* (Col. Curc.), 3340.

Oviposition.

Coleoptera: ANDERSEN, *Calandra granaria* (Curc.), 64; DOUGLASS, *Epilachna corrupta* (Coccin.), 771; HRISAFI, *Galerucella luteola*, 1419; JANKE, *Agelastica alni*, 1496, *Euvolulus cupreus* (Curc.), 1498; LÜHMANN, *Galerucella viburni*, 1858, 1859; PARKIN, *Lyctus* spp., 2292; SUBRAMANIAM, *Xylotrechus quadripes*, 2941.—*Hymenoptera*: ABBOTT, *Megarhyssa* (Ichn.), 10; CLANCY, *Tetracnemus pretiosus* (Encyrt.), 572; DONER, *Microbracon pygmaeus*, 758; HANDSCHIN, *Spalangia sundaica, orientalis* (Pterom.), 1193a; HANNA, *Euchalcidia caryobori*, 1199; KATAYAMA, *Cerceris navitatis*, 1585; MACGILL, *Anagrus atomus* (Mymar.), 1884; PEMBERTON, *Telenomus navai* (Scelion.), 2321.—*Lepidoptera*: DAVIS et al., *Diatraea grandiosella* (Pyral.), 719; FROHAWK, British butterflies, 991; GRISWOLD, *Papaipema purpurifascia*, *Macronoctua onusta* (Noct.), 1146; NOËL, *Galleria mellonella* (Pyral.), 2201; RUMYANTZEV, *Lithocolletis populi-foliella* (Tin.), 2619; SPEYER, *Audeoudia haltica* (Pyral.), 2880; STAPLEY, *Argyresthia conjugella* (Tin.), 2894; STIRRETT, BEALL & LINDSAY, *Pyrausta nubilalis* (Pyral.), 2919; VÖHRINGER, *Galleria mellonella* (Pyral.), 3187; WILLE, *Mescimnia peruvella* (Pyral.), 3300.—*Trichoptera*: BETTEN, 261.—*Neuroptera*: KÄSTNER, *Raphidia notata*, 1584; KILLINGTON, some British Hemerobiids, 1618.—*Diptera*: BRANNON, *Lucilia sericata*, 372; BRITTEN, *Pollenia rudis* (Calliph.), 390; BRUMPT, *Lucilia bufonivora* (Calliph.), 416, 417; CAMERON, *Haematopota puvialis*

(Taban.), 472; DOWDEN, *Zenillia libatrix* (Tach.), 774; KÖRTING, *Oscinis frit* (Chlorop.), 1701; MAIL, *Aedes vexans* (Culic.), 1901; PARKER, *Centeter unicolor* (Tach.), 2291; PIERRE, Tipulids, 2382; SMART, *Simulium pictipes*, 2840.—*Hemiptera*: ANDRE, *Oncopeltus fasciatus* (Lyg.), 65; CHATTERJEE, *Petaloccephala nigrilinea* (Jass.), 529; HOFFMANN, *Sycanus croceovittatus* (Reduv.), 1371; JOHNSON, *Notostira erratica* (Caps.), 1526; JORDAN, aquatic bugs, Tyrol, 1538, 1539; SCHUMANN, *Gerris thoracicus*, 2742; SQUIRE, *Mormidea poecila* (Pentat.), 2885; WARD, *Myzus persicae* (Aph.), 3217; YOTHERS, *Stictoccephala inermis*, *Ceresa basalis* (Membr.), 3360.—*Mallophaga*: MARTIN, *Columbicola columbae*, 1955.—*Ephemeroptera*: BOGOESCU, 322.—*Odonata*: LUNAU, *Agrion mercuriale*, 1863.—*Orthoptera*: CAPPE DE BAILLON, FAVRELLE & VICHET, Phasmids, 481.

Parasitism.

ASS, parasites of the walrus, 91; BLANCHARD, animal parasites of the S. American locust, 295; HANDSCHIN, parasitic Staphylinidae (Col.), 1192, *Lyperosia exigua* (Dipt.), parasites, 1193a; MICHALK & RIEDEL, Tachinid parasites of Hemiptera, 2040; PAILLOT, morphological effects of parasitism on plant-lice, 2289; PAYNE, host-parasite balance, 2314; SALT, *Trichogramma* does not lay its eggs at random, 2642; SMIRNOV & KUZINA, *Mormoniella vitripennis* (Hym. Pteromal.), host preference and numbers of offspring, 2843; THOMPSON, morphological adaptation in Tachinid parasites of woodlice and host relations of the parasites, 3050; WLADIMIROV & SMIRNOV, *Mormoniella vitripennis* (Hym. Pteromal.), differences in attraction to various hosts, 3313.

Parental Care.

HUSSEY, *Pachycoris torridus* and other Hemiptera, 1435; LÜHMANN, *Galerucella viburni* (Col.), 1859; PUKOWSKI, *Necrophorus* (Col.), storing of food underground, etc., for progeny, 2456; TAKAHASHI, *Mezira membranacea* (Hem. Aradid.), 2992.

Nests.

BERLAND, nests of Vespidae in France (Hym.), 242; CARL, *Ropalidia montana* (Hym. Vesp.), 491a; CHRISTENSEN, *Hoplomerus spinipes* (Hym. Eumen.)

structure and provisioning of nests, 564; COLE, *Pogonomyrmex occidentalis* (Hym. Form.), unusual mound, Ent. News 45 p. 170; FRIEDERICH, Embioptera, 984; HAVERHORST, *Odynerus* (Hym.), 1230; IKUSHIMA, *Spheg multicus* (Hym.), nesting habits, 1453; KATAYAMA, *Cerceris navitatis* (Hym.), 1585; LIEFTINCK, *Megachile centuncularis* (Hym. Apid.), 1810; LINDQUIST, *Vespula maculifrons* (Hym.), 1829; MEIDELL, *Bombus* spp. (Hym.), building and provisioning of nests, 1999; MINKIEWICZ, Polish Sphegids, 2056; NIELSEN, Danish solitary bees, 2184; PLATH, humble bees, 2387; RAU, making and provisioning of nests by bees and wasps of Barro Colorado I. (Hym.), 2481; ROZANOV, *Lasius fuliginosus*, carton nest, 2613; SCHUITMAKER & FRANSSEN, *Paratopula ceylonica* (Hym. Apid.), 2728; SPOONER, *Odynerus herrichi* (Hym.), 2882; WEY-RAUCH, *Bombus* spp. (Hym.), 3277.

Larval Cases, Cocoons.

BAUDOT, *Coelocrabro pubescens* (Hym.), 183; ORCUTT in BETTEN, larval cases of Trichoptera, 261; CHRISTENSEN, *Hoplomerus spinipes* (Hym. Eumen.), cocoon, 564; FARQUHAR, *Fumea casta* (Lep. Psych.), larval case, 901; GLOVER, *Bracon tachardiae* (Hym.), 1087; HORA, silken shelters of larvae of torrential Lepidoptera, 1389; JAKUBISIAKOWA, cases of Trichopterous larvae in Poland, 1490; KAMIYA, *Dendrolimus superans* (Lep.), 1563; KAWADA, Saturniidae, 1590; KOEPEL, *Molanna* sp. (Trichopt.), larval case, 1670; KUWAYAMA, *Setodes argentata*, *Oecetis nigropunctata* (Trichopt.), cases, 1737; MORETTI, Trichoptera, cases, 2080; OCHMANN, *Plusia moneta* (Lep. Noct.), 2223; ROSENBERG, *Meteorus chrysophthalmus*, *Spilocryptus incubitor* (Hym.), 2582; THIENEMANN, *Lithotanytarsus emarginatus* (Dipt. Chiron.), larval cases, 3040; YAKHONTOV, *Hypera variabilis* (Col. Curc.), 3340; YASUMATSU, *Pseunulus lubricus* (Hym. Spheg.), 3350.

Miscellaneous.

BEIER, biology of German Orthoptera, 199; EDWARDS, *Arachnocampa luminosa* (Dipt., Mycetoph.), luminosity, 821; GINZBERGER, *Fidicina chlorogena* (Hem. Cicad.), earth chimneys made by larvae, 1077; HAWLEY, *Popillia japonica* (Col. Rutel.), horizontal movements in

the soil, 1231; KAISER & NEUMAIER, geological importance of soil-inhabiting insects in dry districts, 1554; LEWIS, *Glossina tachinoides*, *submorsitans* (Dipt.), behaviour of larvae before pupation, 1795; POULTON, dispersal of freshly emerged insects as an adaptation to prevent in-breeding, 2415; STUTZMAN, *Notonecta undulata* (Hem.) and other aquatic insects active beneath ice, 2936; WALDE, *Panorpa communis* (Mecopt.), larval habits, 3212.

GEOGRAPHY OR FAUNISTIC.

In this section references are given to all species recorded from Arctic or characteristic island faunas, but in the other divisions reference is made only to papers dealing with monographs or revisions or giving information of faunistic value:

General.

WARNECKE, principles for study of geographical distribution, 3224.—*Coleoptera*: BORCHMANN, Lagriniæ, revision, 340; CSIKI, Cleoninæ (Curc.), catalogue, 678, Hyperinæ (Curc.), catalogue, 679; HUSTACHE, Zygopiniæ (Curc.), catalogue, 1436; KLIMA, Gymetrinæ, Nanophyiniæ, Cioninæ, Tychiniæ, Errirrhiniæ (Curc.), catalogue, 1647; LAPOUGE, Carabiniæ IV, catalogue, 1753; OBENBERGER, Buprestidæ III, catalogue, 2220; OHAUS, Euchiriniæ, Phaenomeriniæ (Rutel.), catalogue, 2231, Ruteliniæ, revision, 2232; PIC, Monommidiæ, additions to catalogue, 2358; SCHEERFELTZ, Staphylinidæ VIII: Suppl. 2, 2679; SCHENKLING, Telegeusidæ, Biphylidæ, Aculagnathidæ, Hemipeplidæ, Scalidiidæ, catalogues, 2684; SCHENKLING & MARSHALL, Anthonominiæ, Laemosacciniæ (Curc.), catalogue, 2686; SEMENOV-TIAN-SHANSKIĭ, Necrophorini (Silph.), distribution, 2784; UYTENBOOGAART, *Tribolium* (Tenebr.), revision, 3138; VOSS, Auletini (Curc.), revision (part), 3197.—*Hymenoptera*: BLÜTHGEN, *Nomioides* (Apid.), revision (suppl.), 303; YASUMATSU, *Discoelius* (Eumen.), list,

3349, *Passaloecus* (Spheg.), list, 3353.—*Lepidoptera*: BRYK, Baroniinae, Teinopalpinae, Parnassiinae (Papil.), world revision, 428; GAEDE, Notodontidae, catalogue, 1020; MATSUMURA, distribution of families and genera of Rhopalocera, 1978; MELL, extension of Himalayan *Lepidoptera* into China, 2006; PROUT, Sterrhinae I (Geom.), catalogue, 2439; SCHÜSSLER, Saturniinae II, Ludiinae I (Saturn.), catalogue, 2744; TALBOT, Pieridae II, catalogue, 3001.—*Diptera*: HENDEL, Tethinidae (Helomyz.), revision, 1286; JOBLING, *Nycteribosca* (Streb.), revision, 1520; KARIYA, *Pedicia* (Tipul.), list, 1576.—*Hemiptera*: HUNGERFORD, *Notonecta*, revision, 1431; HUNGERFORD & EVANS, *Hydrometra*, keys, list, 1432; LINDINGER, *Apteronidia* (Hem. Coccid.), list of spp., 1822; MCATEE, Eupteryginae (Hem. Jass.), list, 1871.—*Thysanoptera*: ISHIDA, *Ecacanthothrips*, distribution, key, 1475; STEINWEDEN, *Taeniothrips*, key, 2907.—*Anoplura*: FERRIS, monograph, pt. 5, 916.—*Mallophaga*: DE CASTRO MONTEIRO DE BARROS NETTO, *Esthioterum*, revision, list, 509.—*Orthoptera*: BEIER, Hymenopodinae, Sibyllinae, Empusinae, Toxoderirae (Mant.), catalogue, 198.

Arctic, Antarctic.

Insecta: COCKAYNE, collected in Arctic Russia, 588; LACK, Scoresby Sound Region, E. Greenland, 1743; PETERS, Greenland, 2335; WITTMANN, insect fauna of Antarctic as indication of an antarctic continent, 3311.—*Coleoptera*: BRUCE, *Cryptophagus confusus* sp. n., Finland, 406; LINDBERG, *Hydraena* (Hydroph.), Finland, 1821.—*Hymenoptera*: BENSON, sawflies, Bear I., 222; McILROY, Tenthredinidae, Ichneumonidae, Bombidae, Southampton I., 1887; POULTON, Ichneumonidae, Braconidae, Akpatok I., Hudson Bay, 2411; ROMAN, Ichneumonids, E. Greenland, 2568, Parasitic Hym., Bear I., 2567.—*Lepidoptera*: KOZHANTCHIKOV, Agrotinae (Noct.), distribution of Arctic spp., 1716; MEYRICK, *Phthorimaea* sp. n. (Tin.), Greenland, 2037; POULTON, Akpatok I., Hudson Bay, 2410; RANGNOW, *Pheosia* sp. n. (Notod.), Lapland, Int. ent. Z. 27 p. 555.—*Diptera*: ALEXANDER, Trichoceridae, Tipulidae, Southampton I., list, 31; MALLOCH, Southampton I., 1911; STONE, *Aedes alpinus* (Culic.), Southampton I., 2922.—*Hemiptera*: CHINA,

W. Greenland, 549; STARK, *Aradus*, Kola Peninsula, 2897.—*Mallophaga*: PETERS, Southampton I., Hudson B., 2336.

Insular (including New Zealand).

Canary Is. *Coleoptera*: DE LA ESCALERA, new spp., Tenerife, 862; UYTENBOOGAART, spp. n., 3139.—*Diptera*: ABREU & SCHMITZ, Phoridae, catalogue, 12.

Caroline Is., HIROSE, Rhopalocera, 1354.

Christmas I., Indian Ocean. *Insecta*: TWEEDIE et al., 3115.—*Coleoptera*: BLAIR, *Phelipara* sp. n. (Lam.), 286.—*Lepidoptera*: PENDLEBURY, butterflies, 3222; PROUT, Geometridae, 2438.

D'Entrecasteaux Is. *Lepidoptera*: EVANS, new Hesperidae, Goodenough I., 884.

Fiji. *Coleoptera*: THÉRY, *Agrilus* (Buprest.), list of Polynesian spp., 3024; VAN ZWALUWENBURG, *Tetrigus* sp. n. (Elat.) 3158.—*Hymenoptera*: WHEELER, *Camponotus* spp. n. (Formic.), 3280.—*Lepidoptera*: MEYRICK, new Tineids, Tortricids, Pyralids, 2036; PROUT, new Geometrids, 2443.—*Trichoptera*: MOSELY, new spp. and list of known spp., 2095.—*Diptera*: ALEXANDER, *Toxorhina* sp. n. (Tipul.), 32; BARANOV, Tachinidae, 156.—*Hemiptera*: OSBORN, *Jassus* sp. n., 2258.—*Orthoptera*: CARL, Phasmidae, 491.

Galapagos Is. *Neuroptera*: ESBEN-PETERSEN, 860.—*Diptera*: CURRAN, new genn. et spp. n., 692.—*Hemiptera*: BARBER, Heteroptera, 158.—*Orthoptera*: HEBARD, 1243.

Guan I. *Odonata*: KENNEDY, *Anax* sp. n., 1602.

Hawaii. *Insecta*: SWEZEY, records of immigrant insects for 1933, 2967.—*Coleoptera*: SCHEDL, *Xyleborus* sp. n. (Scolyt.), 2677; SWEZEY, *Rhyncogonus* (Curc.), Oahu, distribution, 2965.—*Lepidoptera*: SWEZEY, *Promylaea* (Pyral.), *Petrochroa*, *Philodoria* (Tin.) (Lep.), spp. n., 2964.—*Diptera*: BRYAN, check list, 424; MACFIE, *Dasyhelea* sp. n. (Ceratopog.), 1881.—*Hemiptera*: STICKNEY, new Coccids, 2914.—*Thysanoptera*: MOULTON, new spp., 2100.—*Odonata*: KENNEDY, *Kilau-grion* sp. n., 1601.—*Thysanura*: SILVESTRI, *Plusiocampa* sp. n., 2823.

Loyalty Is. *Hymenoptera*: VON SCHULTHESS, 2730.—*Isoptera*: HOLMGREN, 1379.—*Orthoptera*: CARL, Phasmidae, 491; CHOPARD, Gryllidae, 554.—*Thysanura*: SILVESTRI, 2817.

Marquesas. *Lepidoptera*: EVANS, *Badamia atrox* f.n. (Hesper.), 884.—*Embioptera*: SILVESTRI, 2822.

Marshall Is. HIROSE, Rhopalocera, 1354.

New Caledonia. *Hymenoptera*: VON SCHULTHESS, 2730.—*Diptera*: BARANOV, Tachinidae, 156.—*Hemiptera*: EVANS, *Ipoidea* gen. et sp. n. (Jass.), 880; JACZEWSKI, *Ochterus* sp. n., 1485; MUIR, *Eocenchrea* sp. n. (Derb.), 2104.—*Isoptera*: HOLMGREN, 1379.—*Orthoptera*: CARL, Phasmidae, 491; CHOPARD, Gryllidae, 554.—*Thysanura*: SILVESTRI, 2817.

New Hebrides. *Coleoptera*: BERNHAUER, new Staphylinidae, 254; CAMERON, new Staphylinidae, 478; PAULIAN, *Rhypparus*, *Ataenius* spp. n. (Aphod.), 2310; PRELL, *Papuana* sp. n. (Dynast.), 2423.—*Hymenoptera*: GIOR-DANI SOIKA, *Eumenes* sp. n., 1082; SCHULTHESS, 2730.—*Lepidoptera*: EVANS, *Badamia atrox* f. n. (Hesper.), 884.—*Hemiptera*: JACZEWSKI, *Ochterus* sp. n., 1485.—*Isoptera*: HOLMGREN, 1379.—*Orthoptera*: CARL, Phasmidae, 491; CHOPARD, Gryllidae, 554.

New Zealand. *Hymenoptera*: WILKINSON, *Apanteles* sp. n. (Brac.), 3299.—*Lepidoptera*: CLARKE, new Heterocera, 580; HUDSON, recent changes in N.Z. butterfly fauna, 1424; MEYRICK, new spp., 2038.—*Diptera*: COLLART, *Microsania* (Clyth.), 618.

Samoa. *Coleoptera*: HORN, *Prothyma* sp. n. (Cicin.), 1406.—*Diptera*: MALLOCH, Drosophilidae, Ephydridae, Sphaeroceridae, Milichidae, 1910.—*Hemiptera*: OSBORN, Jassidae, 2258.

Seychelles. *Neuroptera*: NAVÁS, *Chrysopa* sp. n., 2138.

Palaeartic Region, collectively.

BARTENEV, zoogeographical distribution of palaeartic fauna, 172.—*Coleoptera*: JEANNEL, *Ptomaphagus* (Silph.), 1517; KOCH, *Anthophagus* (Staphyl.), revision, 1666; OBENBERGER, *Anthaxia* (Buprest.), revision, 2216, Trachydinae (Buprest.), revision 2217, Buprestidae, I, 2219; PUEL,

Acinopus (Carab.), revision, 2454; SCHAUBERGER, key to genn. of Ditomi (Carab., Harpal.), 2668; SCHEERPELTZ, *Aleochara* subgen. *Isochara* (Staph.), key, 2682a; ZIMMERMANN, Colymbetinae (Dytisc.), revision, 3396.—*Hymenoptera*: FAHRINGER, Braconidae, revision (contd.), 893; GUSSAKOVSKIĭ, *Prosopigastra* (Spheg.), revision, 1175, *Pedinaspis* (Psammoch.), revision, 1176; POPOV, Stelidini (Apid.), revision, 2402; SANTSCHI, *Solenopsis* (Hym. Formic.), list, 2651a; SCHMIEDEKNECHT, Pimplinae, supplement, 2694; YASUMATSU, *Psithyrus*, key to Palaeartic spp. of subgen. *Ashtonipsithyrus* (Apid.), 3347.—*Lepidoptera*: CORTI & DRAUDT, Agrotinae (Noct.), suppl., 645; GAEDE in SEITZ, Arctiidae, Lymantriidae, Lasiocampidae, Lemoniidae, Notodontidae, Aegeriidae, Cossidae, suppl., 1021; GEHLEN in SEITZ, Sphingidae, suppl., 1049; SEITZ, Cymatophoridae, suppl., 2779; WEHRLI in SEITZ, Psychidae, suppl., 3247.—*Diptera*: CZERNY in LINDNER, Musidoridae (Lonchopteridae), revision, 699, Lonchacidae, revision, 700; DUDA, Perisclidae, Astiidae, Aulacogastriidae, Curtonotidae, Diastatidae, Drosophilidae, revision, 792; ENGEL, Bombyliidae, revision, 845; GOETGHEBUER & LENZ in LINDNER, Ceratopogonidae, revision (conclusion), 1100; HENDEL in LINDNER, Agromyzidae, revision, 1283; PARAMONOW, *Mariobezzia* (Bombyl.), key, 2281; PEUS, *Dixa*, list, 2340; SACK in LINDNER, Mydidae, revision, 2634; SÉGUY, *Pollenia*, catalogue, 2773; STACKELBERG, Dolichopodidae, revision, 2890; SZILÁDY, Leptidae, revision, 2972.—*Siphonaptera*: IOFF & TIFLOV, *Stenoponia*, revision, 1464, 1465.—*Hemiptera*: GODING, Membracidae, revision, 1089.—*Orthoptera*: ADELUNG, *Ectobius* (Blatt.), revision, 13; DOVNAR-ZAPOLESKIĭ, Podismini (Acrid.), revision, 772.

Europe, collectively.

Coleoptera: BREUNING, *Carabus*, V, revision, 380; PLAVILSTSHIKOV, Cerambycini (Callichromina, Rosaliina, Callidiina), revision, 2388.—*Hymenoptera*: KIEFFER, Proctotrupidae, revision, 1614.—*Lepidoptera*: HORMUZAKI, zoogeography of European Macrolepidoptera, 1399; NAUFOCK, *Dysauczes* (Zygaen.), 2136.—*Diptera*: SÉGUY, *Lucilia* (Calliph.), keys, 2768.

North Europe and Siberia.

ESBEN-PETERSEN, Bornholm, Neuropteroid orders and Orthoptera, additions, 858.—*Coleoptera*: BRUCE, *Cryptophagus*, Sweden, Norway, Finland, Denmark, 408; BRUNDIN, Torne-träsk district, Swedish Lapland, list, 419; DOBRZANSKI, Coccinellidae, Yakutz, 753; HELLÉN, *Carabus*, Finland, 1265; KIRSHENBLAT, *Paederus* (Staph.), Russia, 1633; KUZNEZOVA, Dermestidae, Yakutz, 1740; LINDBERG, high northern biotopes of N. Petsamo, Finland, 1819; LINDROTH, Heteromera, Sweden, 1830; LINDROTH & PALM, Norwegian coast, list, 1831.—*Hymenoptera*: HELLÉN, Torymidae, Finland, 1264; KOSTULEV, Eumenidae, Yakutz, 1707.—*Lepidoptera*: KAURI, Estonia, additional list, 1589.—*Diptera*: FREY, Tipulidae, Finland, 981, Chloropidae, Finland, 982; KANERVO, new Syrphids, Finland, 1569; PEUS, Dixidae, Culicidae, Lettland, 2343; RINGDAHL, Sepsidae, Sweden, 2543, *Fannia* (Musc.), Swedish spp., 2545.—*Hemiptera*: OSSIANILSSON, Cicadina, I, Sweden, 2259; STARK, *Aradus*, of N. Russian virgin forests, 2897; WAHLGREN, Psyllidae, Sweden, 3209.—*Thysanoptera*: JOHN, Lettland, 1525.—*Plecoptera*: BENGTTSSON, Sweden, list, 211.—*Odonata*: TIENSUU, Sortavala, Finland, 3056.

British Isles.

Insecta: HINE ET AL., Hitchin region, 1342; LAWSON ET AL., Lancashire and Cheshire, list, 1756.—*Coleoptera*: BALFOUR-BROWNE, aquatic Coleoptera of Kerry, 126, aquatic beetles of counties Angus and Kincardine, 128.—*Hymenoptera*: BENSON, Dolerinae (Tenthred.), additions to British list, 223, *Tenthredopsis* (Tenthred.), 225; CLARK, Cynipidae of Ayrshire, list, 575; LAIDLAW, *Vespa*, Scotland, distribution, 1747; MILES, Hymenoptera Symphyta of Lancashire and Cheshire, 2047.—*Lepidoptera*: ADKIN, Eastbourne, additions, 14; CURTIS, Dorset, 695; DONOVAN, Noctuidae, Ireland, catalogue, 762; FROHAWK, Rhopalocera, 991; HEMMING, Rhopalocera, list, 1273; TURNER, additions to Tutt's list of Noctuidae, 3113.—*Neuroptera*: DALTRY, Staffordshire, 702; KILLINGTON, *Hemerobius*, key, 1617.—*Mecoptera*: HOBBY & KILLINGTON, synopsis, 1362.—*Diptera*: AUDCENT, Bristol (cont.), 99, Liriopinae (Tipul.), 100;

COLLIN, *Microsania* (Platypet.), key, 624.—*Hemiptera*: THORNLEY, Cornwall, 3053.—*Collembola*: DAVIES, additions to list, 714, N. Wales, list, 715.

France.

BONNAMOUR, Longicornia of Lyons district (part), 338; HOULBERT & BARTHE, Scarabaeidae, Melandryidae, keys, 1415, 1416; JEANNEL, Catopini (Silph.), revisor, 1514; LABOISSIÈRE, Galerucinae, revision, 1741; PORTEVIN, Heteromera, Phytophaga, 2404.—*Hymenoptera*: BERLAND, *Leucospis* (Chalc.), key, 243; COULON, Ichneumonidae, Normandy, list, 654.—*Lepidoptera*: RONDOU, Pyrenees, catalogue (contd.), 2574; SPRÖNGERTS, St. Martin, Maritime Alps, list, 2884; WARNECKE, Macrolepidoptera, zoogeography, 3217a.—*Diptera*: SÉGUY, Muscidae Acalypterae and Scatophagidae, revision, 2767.

Central and Eastern Europe.

Insecta: BROHMER ET AL., Germany, 393; RÜSCHKAMP, survey of activities in recording German insect fauna, 2621; WERNER, insects of East Tyrol, list (cont.), 3267.—*Coleoptera*: BAROVSKI, *Saperda* (Lam.), Russia, 170; DELAHON, supplement to Schilsky's list of German beetles, 726; FÄGEL, Belgium, catalogue, additions, 889–891; LENISTEA, Retezat Mts., Rumania, list, 1447; JACOBS, Harz Mts., list (cont.), 1483; KANTARDJIEVA - MINKOWA, Lamiids, Bulgaria, 1573; MAROU, Ipidae, Rumania, list, 1940, Col. of Bukovina, list, 1941; MYRDIK, Poznań prov., Poland, list, 2127; PAPAZOV, Silphinae, Bulgaria, 2277; PENECKE, Cuculionidae, Bukovina, 1402, 2323; RUSCINSKY, Bessarabia, list, 2624; RECLAIRE & VAN DER WIEL, Netherlands, 13th addition to suppl. of "Coleoptera Neerlandica III," 2499; ROSSKOTHE, *Acrotrichis* (Trichopteryg.), Germany, 2586; SCHEERFELTZ, *Carcinocephalus* (Col. Staph.), distribution, 2682; SHCHEGOLEVA-BAROVSKAYA, Silphidae, Russia, 2806; SZEKESY, boreoalpine distribution of *Phytodecta* spp. (Chrysom.), 2970; SZULCZEWSKI, Scarabaeids of Poland, list, 2977; VON DER TRAPPEN, Württemberg (cont.), 3091; WÜSTHOFF, *Stenus* (Staph.), distribution, 3335.—*Hymenoptera*: ATANASOW, Formicidae, Bulgaria, 94; OBARSKI, woodland Tenthredinidae, Poland, 2215; REICHERT, Tenthre-

dinoidea of Leipzig, list, 2515; STECK, *Leucospis* (Hym. Chalc.), Switzerland, 2901; STOECKERT, bees of Franconia, 2920; ZAVADIL, Sphegidae of Ostrava district, Moravia, list, 3375; distribution of Aculeates, Czechoslovakia, 3376.—*Lepidoptera*: ALEXINSCHL, Rumania, list, 36, 37; ECKSTEIN, Microlepidoptera, Germany, list, 813; MARTINI, Microlepidoptera, Thuringia, list, 1957; METSCHL & SÄLZL, Noctuidae, Regensburg district, 2025; SCHOPFER, Microlepidoptera, Dresden district, list, 2716; VERITY, lowland races of butterflies of Upper Rhone Valley, 3171; WIZE, Jezewo, Poland, additions, 3312; WNUKOWSKY, Petropavlovsk district, Kirghiz, 3315.—*Trichoptera*: FISCHER, Netherlands and neighbouring regions, 931; MARTYNOV, Russia, 1958, 1959, 1961; RACIECKA, Poland, 2467.—*Diptera*: BUKOVSKI & STACKELBERG, Syrphidae, Crimea, 444; COLLART, *Microsania* (Clythid.), Belgium, revision, 616; DRENSKY, Syrphidae, Bulgaria, 786; GOETGHEBUER, Chironomidae, Belgium, catalogue, 1094; KARL, revision of German Muscidae (contd.), 1577; KOMÁREK & VIMMER, Blepharoceridae, Balkans, revision, 1678; ROHDENDORF, *Sarcophaga*, Crimea, 2559; SCHMITZ, Phoridae, Austria, list, 2701; SUSTER, distribution of Tachinidae in Rumania, 2952, 2955; SZILÁDY, Rhagionidae, Hungary, keys, 2973; VOGEL, Culicidae of Württemberg, 3186.—*Siphonaptera*: WAGNER & ARGYROPULO, Azerbaijan, Transcaucasia, list, 3206.—*Hemiptera*: KIRICHENKO & TALITZKI, S.E. Ukraine, 1632; MARCU, Bukovina, list, 1933; RECLAIRE, Heteroptera, Holland and adjacent regions, supplement, 2498; ROSENBAUM, supplement to Stichel's list of German Hemiptera, 2581; STICHEL, Germany, keys (contd.), 2913; SZULCZEWSKI, Coccids of Poland, list, 2976; THIEM & GERNECK, *Aspidiotus* (Cocc.), Germany, 3035.—*Plecoptera*: KÜHTREIBER, N. Tyrol, revision, 1731.—*Ephemeroptera*: BOGOESCU, Rumania, 320-324.—*Odonata*: ST. QUENTIN, Bukovina, list, 2637.—*Orthoptera*: SOKOLOWSKI, Poland, list, 2864.—*Protura*: IONESCO, of Rumania, 1468.

South Europe and Mediterranean Basin.

SCORTECCI, fauna of Fezzan, Libya, 2757.—*Coleoptera*: ANTOINE, *Dyschirius*, *Trymosternus* (Carab.), Morocco,

74; BLAIR, Ahaggar Mts., Sahara, 285; CHAPMAN, *Staphylinus*, distribution, 527; DE LA ESCALERA, *Hymenoptera* (Melol.), Morocco, 867; FUENTE Y MORALES, Spain and Balearic Is., catalogue, additions, 997; KOCH, Staphylinidae, Egypt, 1664; LUIGIONI, National Park of Abruzzo, 1861; NORMAND, Tunisia, catalogue, 2207; SCHATZMAYR & KOCH, *Anthicus*, *Mesostenopa* (Tenebr.), keys, Egypt, 2665; ZUMPT, *Otiorrhynchus* (Curc.), Spain, revision, 3402.—*Hymenoptera*: ALFKEN, *Megachile*, *Crocisa*, *Coelioxys* (Apid.), Egypt, 38-40; BENSON, Aculeates, Ahaggar Mts., Sahara, 221; BLÜTHGEN, Halictinae, Egypt, 299; DONISTHORPE, Formicidae, Ahaggar Mts., 759; GINER MARI, Fossores, Spain, 1076; GOIDANTCH, *Habrobracon*, Italian spp., 1105; GUIGLIA & CAPRA, *Polistes* (Vesp.), Italy, revision, 1157, *Scolia*, Italy, revision 1158, *Vespa*, *Vespula*, Italy, 1159; HAUPT, Mediterranean, Psammocharidae, 1225, Psammocharidae, Italy, 1226; MASI, Chalcididae, Cyprus, 1963; NADIG ET AL., Apidae, Sphegidae and Vespidae of Morocco, list, 2129; ROTH, Aculeata, Central Sahara, 2590; SANTSCHI, ants of Central Sahara, 2650; SCHULTHESS-SCHINDLER, Vespids, Balearic Is., 2732, 2733; WERNER ET AL., Aegean Is., 3269.—*Lepidoptera*: DÜRCK & REISSER, Rif district of Spanish Morocco, 803; MENDES, Rhopalocera of Iberian Peninsula, 2013; REBEL, Lower Egypt, list, 2492; RILEY, Ahaggar Mts., Sahara, 2542; ROCCI & TURATI, *Sesamia*, Italy, 2551; WEHRLI, Geometridae of S.E. Taurus, list, 3252, 3253.—*Diptera*: AUBERTIN, from Ahaggar Mts., 97; AZIZ, Anophelines, Cyprus, 106; CAMINOPETROS, *Phlebotomus* (Psychod.), Greece, 479; CORRADETTI, Nycteribiidae, Roman Campagna, 642; EFFLATOUN, Asilidae, Egypt, monograph, 825a.—*Hemiptera*: BALACHOWSKY, Coccidae, Central Sahara, 121; DE BERGEVIN, Hemiptera, Sahara, 232, 234, 235; CHINA, from Ahaggar Mts., Sahara, 548; KORONÉOS, Diaspinidae (Cocc.), Greece, 1694; MIMBUR, Aphididae, Morocco, 2055; POISSON, Aquatic Hemiptera, Central Sahara, 2396; PRIESNER, Aleurodidae, Egypt (II), 2426, 2432; DE SEABRA, Polyneuria, Onichophora, Phloeobiotica, Portugal, synopsis, concluded, 2761; VAYSSIÈRE, Monophlebid and Pseudococ-

cids, Central Sahara, 3164.—*Odonata*: KIMMINS, Ahaggar Mts., Sahara, 1619; *Dermaptera*: MACCAGNO, Italy, revision, 1873.—*Orthoptera*: CASSAB, *Gryllotalpa*, Egypt, 506a; CHOPARD, Central Sahara, 560; UVAROV, Ahaggar Mts., Sahara, 3132; WERNER, Aegean Is., 3262.

Caucasus, West and Central Asia.

Coleoptera: KIRSHENBLAT, *Nebria* (Carab.), Caucasian spp., 1634a; LONA, *Otiorrhynchus* (Curc.), Alai, Pamirs, 1843; NETOLITZKY, *Bembidiinae* (Carab.), Alai, Pamirs, 2171; REICHARDT, key to Turkmenistan Meloidae, 2513; SCHAUBERGER, *Harpalini* (Carab.), Alai, Pamirs, 2666; ZUMPT, *Curculionidae* (excl. *Otiorrhynchus*), Alai, Pamirs, 3403.—*Hymenoptera*: KUZNETZOV, ants of Taschkent district, 1738; REINIG, *Bombus*, Alai, Pamirs, 2522.—*Lepidoptera*: REBEL, S. Arabia, Sokotra I., spp. n., 2491, *Microlepidoptera*, Tien-Shan, list, 2493.—*Neuroptera*: NAVÁS, Arabia, new spp., 2151.—*Diptera*: ENDERLEIN, Alai, Pamirs, 840; GOETGHEBUER, *Ceratopogonidae*, *Chironomidae*, Persian Gulf, 1091; PERFIL'EV, *Phlebotomus* (Psychod.), Turkmenia, 2326; SERGUIEV, *Phlebotomus*, Daghestan and N. Caucasus, 2794.—*Siphonaptera*: IOFF & ARGYROPOULO, Armenia, revision, 1463.—*Orthoptera*: RAMME, additions, Alai, Pamirs, 2477; UVAROV, Syria, Turkey and Iraq, spp. n., 3135, 3137.

Africa.

Insecta: PAOLI, agricultural insects of Italian Somaliland, 2275; *Coleoptera*: BERNHAUER, *Staphylinids* from S. Africa, 248; BREUNING, *Tragocephalini* (Lamiid.), revision, 383; BURGEON, *Cetoniinae*, Belgian Congo, 448, *Abacetus* (Carab.), Belgian Congo, key, 450; *Tenebrionidae*, Congo, 452; DELKESKAMP, *Plagiopisthen* (Erotyl.), revision, 729; LIEBKE, *Brachyninae* (Carab.), revision, 1808; PESCHET, *Dytiscidae*, *Gyrinidae*, from E. Africa, 2331; THÉRY, *Actenodae* (Bupr.), revision, 3028.—*Hymenoptera*: ARNOLD, *Psammocharidae* (part) of Ethiopian region, revision, 81, *Methoca* (Mutill.), revision, 84; GIORDANI SOIKA, *Odynerus* (Eumen.), 1079; NIXON, *Hadronotus* (Seelion.), 2196.—*Lepidop-*

tera: CARPENTER, *Rhopalocera*, northern Is. of Lake Victoria, 497; HAMPSON, moths, S. Africa, 1189; JANSE, *Geometridae*, S. Africa (contd.), 1502; MEYRICK, *Microlepidoptera*, Is. in Gulf of Guinea, 2034.—*Trichoptera*: BARNARD, S. Africa, 163; MOSELY, *Hydropsychodes*, list, 2095.—*Diptera*: CURRAN, *Neolaparus*, *Lophopeltis* (Asil.), keys, 685, *Idiopygus* (Musc.), revision, 688, *Cylindromyza* (Tach.), revision, 691; EDWARDS, *Nematocera*, Islands of Gulf of Guinea, 815; MUNRO, *Ceratitis*, subgen. *Trirhithrum* (Tryp.), revision, 2117, *Actinoptera* (Tryp.), revision, 2118; SCHWETZ, *Glossina*, Belgian Congo, distribution, 2756.—*Hemiptera*: POISSON, Mozambique, spp. n., 2395.—*Odonata*: SCHOUTEDEN, Belgian Congo, 2718.—*Orthoptera*: CHOPARD, *Gryllidae*, Belgian Congo, 555; SJÖSTEDT, *Acrididae*, *Mantidae*, *Phasmodidae*, Mt. Elgon, 2829; UVAROV, Abyssinia, 3136.—*Collembola*: WOMERSLEY, table of distribution, 3322.

Madagascar and Mascarene Is.

MADAGASCAR.

Coleoptera: BÄNNINGER, new *Scaritini* (Carab.), 149; BORCHMANN, *Lagria* sp. n., 340; BREUNING, new *Lamiids*, 383; FLEUTIAUX, new *Eucnemids*, *Elaterids*, 941, 942, 944; HINCKS, *Passalidae*, revision, 1338; HORN, *Pogonostoma* (Cicind.), revision, 1404; JEANNEL, *Lioclemmus* gen. et sp. n. (Endomych.), 1510; PIC, *Zabriola* sp. n. (Oedem.), 2363, *Opilo* sp. n. (Clerid.), 2371, *Lema* sp. n. (Cricocer.), 2372; SPAETH, *Hoplonota* spp. n. (Cassid.), 2873; VOSS, new *Cossoninae* (Curc.), 3191.—*Hymenoptera*: BLÜTHGEN, *Nomioides* sp. n. (Apid.), 303; GIORDANI SOIKA, *Labus* sp. n. (Eumen.), 1082; SEYRIG, *Tryphoninae* and *Pimplinae* (suppl.), (Tehn.), revision, 2800.—*Lepidoptera*: COLLENETTE, *Laelia* sp. n. (Lyman.), 620; MEYRICK, new *Tineids*, *Tortricids*, 2036; PROUT, new *Geometridae*, 2441.—*Trichoptera*: NAVÁS, *Dipseudopsis* spp. n., 2149, *Chimarra* sp. n., 2154.—*Neuroptera*: NAVÁS, *Chrysopa* sp. n., 2154.—*Diptera*: ENDERLEIN, new *Tabanids*, *Scenopinus* sp. n. (Stratiom.), 842; HOBBS, *Asilus* sp. n., 1356; PARENT, *Diaphorus* sp. n. (Dolichop.), 2283; SÉGUY, *Rhinomyza* spp. n. (Taban.), *Systropus* sp. n. (Bombyl.), *Omphrale* sp. n., *Rhynchomyia* sp. n. (Calliph.), 2771, *Toxophora*

sp. n. (Bombyl.), *Terre et la Vie*, Paris 4 p. 366.—*Hemiptera*: HUNGERFORD & EVANS, *Hydrometra* spp. n., 1432; KIRITCHENKO, *Gonocerus* sp. n. (Coreid.), 1629.—*Orthoptera*: CHOPARD, *Pteronemobius* sp. n. (Gryll.), 555.

MAURITIUS.

Coleoptera: ALLUAUD, Carabidae, 43; KORSCHIEFSKY, Coccinellidae, list, 1697.

Indo-Australian Region, collectively.

Coleoptera: KLEINE, *Agriorrhynchus* (Brentid.), revision, 1639.—*Lepidoptera*: PROUT, Geometridae, revision, 2440.—*Hemiptera*: GODING, Membracidae, revision, 1089.

Asia, Tropical and Eastern.

New species of insects described from Japan in 1933, 7.—*Coleoptera*: ALEKSANDROV, Staphylinidae of Ghirinsk Prov., Manchuria, 22; ANDREWES, *Calathus* (Carab.), India, key, 71; CHEN, Halcicidae, Yunnan, Tonkin, revision, 540; CHEO, Gyrinidae, China, 544; CHŪJŌ, *Leptispa* (Hisp.), Japan, revision, 571; GOECKE, Donaciidae, revision, 1090; KAMIYA & YAMAMOTO, Oki I., 1566; KANO, Kurile Is., Japan, 1571; KŌNO, Parnidae, Japan, 1683, Hylobiidae (Curc.), Japan, revision, 1687, Cryptodermidae (Curc.), Japan, 1688; LIU, Phytophaga, China, catalogue, 1840; MIWA, Pescadores Is., Formosa, 2061; TAMANUKI, Tenebrionidae, Saghalin, 3002.—*Hymenoptera*: IWATA, *Crabro*, Japan, 1480; SATO, *Conaspidia* (Tenth.), Japan, 2655; SCHULTHESS, *Odynerus* (Vesp.), Japanese subregion, 2731; TAKEUCHI, sawflies of Kurile Is., 2998; TERANISHI, Formicids, Japan, distribution (III), 3017; TOSAWA, *Eumenes*, Japan, 3076; UCHIDA, Paniseini (Ichn.), Japan, 3116, Acoenitini (Ichn.), Japan, 3118, Scoliididae, Japan, revision, 3119; WATANABE, *Apanteles* (Brac.), Japan, 1st suppl., 3230, Evaniidae, Gasteruptionidae, Japan, 3233; YASUMATSU, *Epeolus* (Apid.), Japan, 3346, *Psithyrus*, distribution of Korean, S. Sachalin and Formosan spp., 3347, Hym. of Yakushima I., 3352.—*Lepidoptera*: ASAHINA, butterflies of Okinawa I., list, 87; CARADJA, biogeography of Microlepidoptera of China, 487, 488; CARADJA &

MEYRICK, Microlepidoptera, Kwangtung, 490; COLLENETTE, Lymantriidae of Kwangtung, S.E. China, list, 622; ESAKI, butterflies of N. Kurile Is., Japan, 851; MARUMO, Siginae, Japan, 1962; SEOK, butterflies of Paiktusan region, Corea, list, 2793; WEHRLLI, *Neolythria* (Geom.), China, revision, 3248.—*Trichoptera*: MOSELY, India, 2097; TATEISHI, Kyushū, list, 3008.—*Diptera*: BARRAUD, Megarhinini and Culicini, India, revision, 171; ENGEL, Asilidae, N.W. China, 846; KARIYA, *Pedicia* (Tipul.), Japan, key, 1576; LI & WU, *Aëdes* (Culic.), Chinese spp., 1804; MANI, Cecidomyiidae, India, revision, 1922; OKADA, Bolitophilinae (Mycetoph.), Japan, 2236; RAYNAL & GASCHEN, *Phlebotomus* (Psychod.), Indo-China, 2487; SÉGUY, *Lucilia* (Calliph.), China, key, 2769.—*Hemiptera*: METCALF & HORTON, Cercopoidea, China, 2024; PRUTHI, *Moonia* (Jass.), revision, 2447; TAKAHASHI, Coccidae, Formosa, IV, 2988, Aleurodidae, Formosa, III, 2989.—*Thysanoptera*: PRIESNER, *Haplothrips*, revision, 2425.—*Isoptera*: MARGABANDHU, annotated list of Indo-Ceylonese, 1944.—*Odonata*: FRASER, India, II, 975, 978, Gomphinae, Ceylon, 976.—*Dermoptera*: BEI-BIENKO, Szechuan Prov., China, 195, from N.W. China, 197; SEMENOV-TIAN-SHANSKIĬ & BEI-BIENKO, Mongolia, 2786.—*Orthoptera*: BEI-BIENKO, Tetrigidae, from N.W. China, 197; CHANG, *Oxya* (Acrid.), China, revision, 521.

Asiatic Archipelago.

Coleoptera: BORCHMANN, new Leptids, Philippines, 340, *Cerogria* sp. n., *Cistelomorpha* spp. n. (Lagr.), Celebes, Timor, Flores, 341; CHEN, new Halcids, Borneo, Philippines, Celebes, 540–542; VAN EMDEN, *Callirhipis* spp. n. (Rhipicer.), Philippines, Sumatra, Borneo, 838; FISHER, new Lamiids, Philippines, 933; FLEUTIAUX, new Eucnemidae, Elateridae, Philippines, Celebes, 940, 947, 948; HELLER, new spp., Philippines, 1267; HORN, *Prothyma* sp. n. (Cicind.), Philippines, 1406; JEDLIČKA, new Carabids, Philippines, Borneo, 1518; KORSCHIEFSKY, *Chilocorus* sp. n. (Coccinell.), Celebes, 1700; PIC, new *Coleoptera*, Philippines, 2371; PRELL, *Heteroclyster* gen. et sp. n. (Dynast.), Luzon, 2423; SCHEDL, new Scolytids, Philippines, 2674; SCHEERPELTZ, *Aleochara* subgen.

Isochara (Staph.), Java, key, 2682a; SCHULZE, new Cerambycidae, Curculionidae, Philippines, 2737; THÉRY, *Chrysodema* sp. n. (Bupres.), Philippines, 3023; Voss, new Curculionids, Philippines, 3194; WOLFRUM, new Anthribids, Philippines, 3321.—*Hymenoptera*: BANKS, Psammocharidae, Philippines, revision, 148; BEQUAERT, new Vespids, Philippines, 229; FORSIUS, Tenthredinidae, Java, list, 965a; HAUPT, *Cyphononyx* sp. n. (Psammochar.), Palawan, 1227; HEINRICH, Ichneumoninae, Celebes, revision, 1256; MICKEL, Mutillidae, Philippines, 2045; SCHULTHESS, *Odynerus* (Vesp.), Philippines, 2731; WATANABE, *Laccagathis* gen. et sp. n. (Brac.), Philippines, 3229; WILKINSON, *Sbeitla* gen. et sp. n. (Brac.), Philippines, 3297.—*Lepidoptera*: COLLENETTE, new Lymantriidae, Celebes, 619, *Laelia* sp. n. (Lyman.), Philippines, 620; CORBET & PENDLEBURY, butterflies of Malay Penin., 638; EVANS, new Hesperidiidae, Celebes, Philippines, Tenimber, 884; GAEDE, new Notodontids, Celebes, 1019; MEYRICK, *Crocantbes* sp. n. (Tineid.), Celebes, 2033.—*Diptera*: ALEXANDER, new Tipulids, Philippines, Bali, Celebes, 32, 33; BRUG, new mosquitos, Timor, 413; EDWARDS, Simuliidae of Java and Sumatra, revision, 817; FREY, new spp. Java, Flores, Timor, Palawan, 983; MALLOCH, *Spinulophila* sp. n. (Drosoph.) Philippines, 1910, new Muscids, Celebes, 1912; MAYER, Ceratopogonidae of Sunda Is., revision, 1986; PARENT, *Diaphorus* sp. n. (Dolichop.), Celebes, 2282.—*Hemiptera*: BLÖTE, new Corixidae, Timor, Celebes, 298; MCATEE, *Empoasca* sp. n. (Jass.), Philippines, 1871.—*Thysanoptera*: BAGNALL, *Dinothrips* sp. n., Celebes, 109; PRIESNER, *Haplothrips*, revision, 2425, Indo-Malayan Thysanoptera, VI, 2429.—*Isopoda*: KEMNER, termites of Java and Celebes, revision, 1600.—*Odonata*: LAIDLAW, Mt. Kinabalu and other Malayan mountain areas, 1745; LIEFTINCK, Java, annotated list, 1811–1813; SCHMIDT, Sumatra and Java, revision, *Ictinus* sp. n., Celebes, 2691.—GÜNTHER, new Phasmididae, Kalao Tua, Talaud and Morotai Is., 1170–1171a; HANITSCH, Blattidae, Celebes, 1197; KARNY, Rhaphidophorini (Gryllac.), eastern Asia, revision, 1581; KÄSTNER, new Mecopodinae, Java, Celebes, 1583; REHN, *Phyllium* spp. n. (Phasm.),

Philippines, Java, 2509; WILLEMSE, new Acridids, Flores, Timor, 3303a.—

Papuan Sub-Region.

BISMARCK ARCHIPELAGO.

Coleoptera: CARTER, *Orcopagia* sp. n. (Tenebr.), New Britain, 504; OCHS, *Macrogyrus* sp. n. (Gyrin.), Admiralty Is., 2224.—*Lepidoptera*: MEYRICK, *Opogona* spp. n. (Tin.), New Britain, 2036; ROTHSCCHILD, *Milionia* sp. n. (Geom.) New Ireland, 2441.—*Diptera*: BARANOV, Tachinidae, Admiralty Is., New Britain, 156; PARENT, *Sciopus* sp. n. (Dolichop.), Admiralty Is., 2285.

KEI IS.

Coleoptera: SCHÜRHOFF, *Ischiopsophia* sp. n. (Ceton.), 2743.

MOLUCCAS.

Coleoptera: BORCHMANN, new Lagriids, Bachian I., Ceram, 340; CHEN, *Plagioderia* sp. n. (Chrysom.), Ceram, 542; FLEUTIAUX, new Elaterids, Amboina, 947; MADER, *Coccinella* sp. n., Banda Is., 2815; PRELL, *Papuana* sp. n. (Dynast.), Halmaheira I., 2423; THÉRY, new Buprestidae, Ceram, 3024.—*Lepidoptera*: EVANS, new Hesperidiidae, Amboina, Buru, 884.—*Diptera*: BRUG, *Tripteroides* sp. n. (Culic.), 413; MALLOCH, *Calliphora*, Misol I., 1912.—*Hemiptera*: SCHOUTEDEN, *Antilochus* sp. n. (Pyrrhocor.), Banda Is., 2717.—*Orthoptera*: GÜNTHER, *Miroceramia* gen. et sp. n. (Phasm.), Ceram, 1169; WILLEMSE, new Acrididae, Amboina, 3303a.

NEW GUINEA.

Coleoptera: BORCHMANN, new Lagriids, 340, *Casonidea* sp. n. (Cistel.), 343; GÜNTHER, *Diatheles* spp. n. (Curc.), 1168; KORSCHESKY, *Neda* sp. n. (Coccinell.), 1697; LHÖSTE, new Chrysomelinae, 1801; PAULIAN, *Temnoplectron* sp. n. (Copr.), 2306; PIC, *Psilodactyla* sp. n. (Col. Helod.), 2371; PRELL, new Dynastidae, 2422; SCHEDL, *Ozopemon* sp. n. (Scolyt.), 2675; SCHÜRHOFF, new Cetonidae, 2743; THÉRY, *Pagdenia* gen. et sp. n. (Buprest.), 3027.—*Hymenoptera*: BENSON, *Ancyloneura* spp. n. (Tenthred.), 228; HAUPT, *Hemipepsis* sp. n. (Psammoch.), 1227; WHEELER, *Lepatomyrmex* (Form.), new spp., 3281.—

Lepidoptera: EVANS, new Hesperidae, 884; MEYRICK, new Tineids, 2036; NIEPALT, *Metanastris* sp. n. (Lasio-camp.), 2187, *Anthela* sp. n. (Lyman.), Int. ent. Z. 28 p. 429 fig.; PROUT, *Craspedosis* spp. n. (Geom.), 2441.—*Neuroptera*: NAVÁS, new genn. and spp. n., 2138.—*Diptera*: ALEXANDER, new Tipulidae, 32; BRUG, new mosquitos, 413; MALLOCH, *Euphumosia* spp. n. (Calliph.), 1912, *Chaetomosillus* sp. n. (Ephydrid.), Occ. Pap. Bishop Mus., Honolulu 10 no. 17 p. 3; TAYLOR, Culicidae, 3013.—*Siphonaptera*: ROTH-SCHILD, new spp., 2590a.—*Hemiptera*: HEINZE, *Brachyplatys* sp. n. (Platasp.), 1257; HUNGERFORD & EVANS, *Hydrometra* sp. n., 1432; MELICHAR, *Caxia* gen. et sp. n. (Jass.), 2004; MUTR, *Arjuna* gen. et sp. n. (Dictyoph.), 2104; SCHOUTEDEN, spp. n., 2717.—*Odonata*: SCHMIDT, *Ictinus* sp. n., 2691.—*Orthoptera*: CARL, Phasmidae, 491; GÜNTHER, new Phasmids, 1169, 1171; KÄSTNER, *Segestes* sp. n. (Tettig.), 1583; WERNER, *Hierodula* sp. n. (Mant.), 3266; WILLEMSE, new Acrididae, 3302, new Tettigoniidae, 3303.

SOLOMON IS.

Coleoptera: FLEUTIAUX, *Symphostethus* sp. n. (Elat.), 946; PRELL, *Oryctoderus* sp. n. (Dynast.), 2422; THÉRY, new Buprestidae, 3024, 3027; VAN ZWALUWENBURG, new Elaterids, 3157, 3158.—*Hymenoptera*: WHEELER, Formicidae (with new spp.), 3284.—*Lepidoptera*: EVANS, new Hesperidae, 884; MEYRICK, *Blepharomastix* sp. n. (Pyral.), 2036.—*Diptera*: BARANOV, new Tachinidae, 153, 156; JOBLING, *Nycteribosca* sp. n. (Streb.), 1521; PARENT, *Chrysosoma*, *Sciopus* spp. n. (Dolichop.), 2285.—*Hemiptera*: CHINA, *Amblypelta* sp. n. (Coreid.), 550; GREEN, *Pseudococcus* sp. n., 1134.—*Orthoptera*: CARL, Phasmidae, 491; HANITSCH, new Blattidae, 1196.

TENIMBER I.

NIEPALT, *Opodiphthera* sp. n. (Saturn.), 2189.

Australia.

Coleoptera: BORCHMANN, *Zonitis* sp. n., 341; CARTER, new species, 504; DEANE, new Trichopterygidae, 721; HORN, *Megacephala* sp. n. (Cicind.), 1407; KLEINE, new Lycids, 1643;

KORSCHESKY, new Coccinellids, 1700; LHOSTE, new Chrysomelinae, 1801; MARSHALL, *Elaeagna* (Curc.), revision, 1950; OKE, new Curculionids, Scolytid, Anthribid, 2240; PAULIAN, Canthonini (Copr.), 2306; PRELL, new Dynastidae, 2422; SCHEERFELT, *Aleochara* subgen. *Isochara* (Staph.), key, 2682a; SCHÜRHOFF, *Eupoecila* sp. n. (Ceton.), 2743; THÉRY, *Curis* sp. n. (Bupr.), 3024.—*Hymenoptera*: BENSON, *Antargidium* spp. n. (Tenth.), 227, Euryinae (Tenth.), revision, 228; BRUES, new Eucharids, 411; CLARK, new Formicids, 576-578; COCKERELL, Apidae, revision, 596; CUSHMAN, *Labium* (Ichn.) spp. n., 696; FERRIÈRE, *Phaenopria* sp. n. (Diapr.), 915; GIRAULT, new Encyrtidae, 1084, 1085; WHEELER, *Leptomymex* (Form.), revision, 3281, *Leptothorax* sp. n. (Form.), 3285; WILKINSON, *Microplitis* sp. n. (Bracon.), 3298.—*Lepidoptera*: COLLENETTE, *Laelia* sp. n. (Lyman.), 620; MEYRICK, *Schoenobius* sp. n. (Pyral.), 2035; TURNER, new Heterocera, 3110, 3111; WATERHOUSE, Hesperidae, V, 3234, Lycaenidae, VII, 3235.—*Trichoptera*: MOSELY, new genn. and spp. n., 2094, 2099; NAVÁS, *Triplectides* sp. n., 2144.—*Neuroptera*: NAVÁS, *Chrysopa* spp. n., 2150.—*Diptera*: ALEXANDER, new Tipulidae, 28, 34; CRESSON, *Gymnopa* sp. n. (Ephyd.), 672; DRUMMOND, Simuliidae of W. Australia, 788; DUDA, new Chloropidae, 793; EDWARDS, *Camptosia* group (Bombyl.), revision, 818; FREY, *Pseudoloxocera* sp. n. (Therev.), 983; FULLER, *Ophiodesma* spp. n. (Strat.), 1003; HARDY, new Diptera, 1204-1208, *Tabanus*, Tasmania, revision, 1209; MALLOCH, *Haplomyza* sp. n. (Agrom.), new Tachinids, 1914; PARAMONOV, *Bombylius* sp. n., 2280; PERKINS, new Trypetidae, 2327; TAYLOR, Culicidae, list, 3012; WHITE, Leptidae, Stratiomyiidae Cyrtidae, 3288.—*Hemiptera*: EVANS, Ipoinae (Jass.), revision, 880; HUNGERFORD, *Sigara* (Corix.), *Merragata* (Hebr.), spp. n., 1430; HUNGERFORD & EVANS, *Hydrometra* spp. n., 1432; JACZEWSKI, *Ochterus* sp. n., 1485.—*Psocoptera*: HICKMAN, Tasmania, 1331.—*Dermaptera*: GÜNTHER, *Chelisothes* sp. n., 1171a.—*Orthoptera*: ANDER, new Gryllacridae, 61; HANITSCH, new Blattidae, 1196; SJÖSTEDT, new Acrididae, 2828, 2831a.—*Thysanura*: WOMERSLEY, Japygidae, revision, 3325.—*Collembola*: DAVIDSON,

Smythurus viridis, distribution, 712; WOMERSLEY, *Brachystomella*, key, 3323, Poduroidea, Entomobryoidea, revision, 3324.

America, collectively.

Coleoptera: DENIER, *Pyrota* (Meloid.), 735; LIEBKE, *Pseudaptinus* (Carab.), revision, 1809.—*Hymenoptera*: RICHARDS, *Trypoxylon* (Spheg.), revision, 2536.—*Lepidoptera*: DRAUDT in SEITZ, Notodontidae, catalogue, conclusion, 781; HOPP, Megalopygidae, revision, 1386; WILLIAMS & BELL, Hesperioidea, II-IV, 3305.—*Diptera*: DA COSTA LIMA, *Anastrepha* (Trypet.), revision, 649, 650; HENNIG, Taeniopterinae (Tyliid.), revision, 1287; REINHARD, *Ceratomyiella*, *Paradidyma* (Tach.), revision, 2520, *Cuphocera* (Tach.), revision, 2521.—*Hemiptera*: DRAKE & HARRIS, Gerrinae, revision, 779; MELICHAR, Cicadellinae, II, monograph, 2004.

North America.

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Neotropical Region, collectively.

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Antilles.

Coleoptera: BIERIG, new Staphylinidae, Cuba, 268-272; BLAKE, new Chrysomelids, Cuba, 293; CHAPIN, *Canthochilum* gen. et sp. n. (Coprid.),

Porto Rico, 523; DARLINGTON, Carabidae, Cuba, list, 711; HINTON, *Tytthonyx* sp. n. (Teleph.), Porto Rico, 1348; LIEBKE, *Pseudaptinus* spp. n. (Carab.), Cuba, 1809; MARSHALL, new Curculionidae, Cuba, Haiti, Porto Rico, 1947; MÉQUIGNON, *Chelonarium* sp. n. (Byrr.), Cuba, 2017; MUTCHLER, new Carabidae, Porto Rico, 2124; PIC, *Copidita* sp. n. (Oedem.), Santo Domingo, 2371.—*Hymenoptera*: FERNALD, *Sphex*, revision, 910; GAHAN, new Chalcidoidea, Cuba, Porto Rico, 1024; GRANDI, *Blastophaga* sp. n. (Agaon.), Cuba, 1128; WEBER, new Formicids, Cuba, 3245; WHEELER, new ants, Cuba, Mona I., 3282.—*Lepidoptera*: D'ALMEIDA, *Terias* sp. n. (Pierid.), Cuba, 51; BATES, new Rhopalocera, Bahamas, 180; BUSCK, new Microlepidoptera, Cuba, 457.—*Trichoptera*: MOSELY, *Ochrotrichia* gen. et sp. n., Jamaica, 2099.—*Diptera*: BATES, *Dyseuaresta*, St. Thomas, *Acrotaenia* Haiti, spp. n., (Trypet.), 181; CRESSON, *Lytogaster* sp. n. (Ephyd.), Cuba, 672; DUDA, *Rhopalopternum* sp. n. (Chlorop.), Antigua, 795; REINHARD, *Cuphocera* sp. n. (Tach.), Cuba, 2521.—*Hemiptera*: BALL, *Leocomia* gen. et sp. n., *Enocomia* gen. et spp. n. (Cercop.), Haiti, 132; BRUNNER, Dicyphinae (Caps.), Cuba, key, 420, 421; DRAKE & HARRIS,

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South America.

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Acinopus revision of Palaearctic spp. pp. 70-86, catalogue p. 81, *megacephalus* var. n. *subsiniaticollis* France p. 72; *liouvillei* Morocco, *antoinei* Algeria p. 77 spp. n., PUEL *Rev. franç. Ent.* 1.

Acoptopterus subgen. n. see *Apotomopterus*.

Acrocarabus subgen. n. see *Morphocarabus*.

Acupalpus key to and notes on French spp. pp. 63-66 figs., PUEL *Misc. ent.* 35.—*A.* type *Carabus meridianus* p. 200, ANDREWES *Ent. mon. Mag.* 70.—*A. convexulus* sp. n. Cuba p. 112, DARLINGTON *Psyche* 41.

Agonoderus pallipes phenology, abundance p. 138, BIGGER *Trans. Ill. Acad. Sci.* 26.

Agonum key to spp. of subgen. p. 42, MÜLLER *Kol. Rdsch.* 20.—*A. moestum* Duft. a good species p. 286, MORLEY *Trans. Suffolk Nat. Soc.* 2.—*A. bellicum* Manchuria, *ciscaucasicum* p. 30, *stavropopolitanum* Stavropol, *chivense* Khiva p. 31, spp. n., LUČNIK *Ent. NachrBl.* 8.—*A. extensicollis* subsp. n. *cubanum* Cuba p. 97, DARLINGTON *Psyche* 41.—*A. aldanicum*, *consimile* characters p. 79, MUNSTER *Notul. ent.* 14.

Allegrettia zavattarii sp. n. Italy p. 153 figs., GHIDINI *Boll. Soc. ent. ital.* 66.

Amara sardiniensis n. n. for *palustris* Baudi nec Gist. 76, STRAND *Arch. Naturgesch.* 82 1917 A5.—*A. fusca* in Mecklenburg pp. 25-30, NÜRNBERG *Arch. Ver. Naturg. Mecklenb. N.F.* 8.—*A. sibiricola* p. 20, *redikorzevi* p. 21, spp. n. Siberia, LUČNIK *Trav. Inst. zool. Acad. Sci. U.R.S.S.* 2.—*A. bodemeyeri* p. 84, *irkutensis* p. 85, spp. n. Siberia figs., BALLANI *Boll. Soc. ent. ital.* 66.—*A. birmana* Burma p. 189 (*Pseudomara* subgen. n.), *beesoni* p. 190, *expolita* p. 191, *obtusangula* p. 195, *latithorax* p. 198, *arrowi* p. 199, *cameroni* p. 200, *incrassata* p. 204, *parkeri* p. 207 India, *yunnana* p. 193, *humilis* p. 196 Yunnan, *harrisoni* Baluchistan p. 194, (*Harपालोamara* subgen. n.) p. 197, *celioides* Sikkim-Tibet frontier p. 201, *hingstoni* Sikkim p. 202, *hypselioides* p. 203, *irregularis* p. 205 Tibet, spp. n. figs., BALLANI *Mem. Soc. ent. ital.* 12.—*A. szetschuana* sp. n. China p. 17, JED-LICKA *Acta Soc. ent. Čsl.* 31.—*A. briali* sp. n. Morocco p. 101 fig., ANTOINE *Bull. Soc. Sci. nat. Maroc* 14.

Amblystomus lepineyi sp. n. Fr. Sudan p. 30, ALLUAUD *Bull. Soc. Sci. nat. Maroc* 14.—*A. sexmaculata* abb. n. *quadripunctata*, *scutellaris*, *tunisea*, *bisbimaculata* Tunisia p. 160, NORMAND *Bull. Soc. Hist. nat. Afr. N.* 24 1933.

Amorphocarabus subgen. n. see *Morphocarabus*.

Anchomenus oryctus p. 280, *lissus* p. 281, *spp. n.* Java, ANDREWES Treubia 12 1933.

Anisodactylus nemorivagus rare in France p. 71, HOUIN Bull. Soc. Sci. nat. Elbeuf 51 1933.

Anophthalmus kaufmanni subsp. n. *uskokensis* Jugoslavia p. 122 figs., SCHEIBEL Kol. Rdsch. 20.

Anthracocarabus subgen. n. see *Mimocarabus*.

Apenes delicata Cuba p. 118, *lata* Bahamas, Cuba, *laevicincta* Haiti p. 119, *spp. n.*, DARLINGTON Psyche 41.

Apocarabus subgen. n. see *Morphocarabus*.

Apotomopterus subgen. n. *Acotopterus* p. 220, *Dolichocarabus* p. 221, *Eutomopterus* p. 222, LAPOUGE Carabes nouveaux 1927.—*A. nestor* China p. 30, *arrowianus* Japan p. 31, *spp. n.*, BREUNING Folia zool. hydrobiol. 8.

Apristus sericeus sp. n. Cuba p. 116, DARLINGTON Psyche 41.

Ardistomus nitidipennis sp. n. Cuba p. 70, DARLINGTON t.c.

Asaphidion type *Cicindela flavipes* L. p. 200, ANDREWES Ent. mon. Mag. 70.

Asthenocarabus subgen. n. see *Leptocarabus*.

Basilicocarabus subgen. n. see *Morphocarabus*.

Bembidion (*Bembidium*) on some European Asiatic spp. in particular on Solsky's types pp. 63-74; *almum* subsp. n. *protalmum* W. Pamirs p. 64; *ovalipenne* subsp. n. *infans* Semirjetschensk p. 67; *pseudoustulatum* Poland, Polynia p. 56, *serorum* China, *altestriatum* Vladivostok, *parsorum* Persia p. 72 *spp. n.*; *terminale* subspp. n. *bucharicum* Bukhara, *kirgisorum* W. Pamirs p. 69; *ustulatum* subsp. n. *solskyi* Turkestan p. 70; *petrosom* Gebl. (= *wagneri* Tsch.); *distinguendum* Duv., *siebkei* Müll. subspp. of *petrosom* p. 73, MÜLLER Kol. Rdsch. 20.—*B. dammermanni* p. 273, *salamander* p. 274, *spp. n.* Java, ANDREWES Treubia 12 1933.—*B. darlingtoni* sp. n. Porto Rico p. 3, MUTCHLER Amer. Mus. Nov. no. 686.—*B. bualei* Jacq. discussed p. 54; *femoratum* var. n. *dissolutum* Finland p. 55, HELÉN Notul. ent. 14.—*B. rimsky-korsakovi* sp. n. Turkmenistan p. 25, LUČNIK Trav. Inst. zool. Acad. Sci. U.R.S.S. 2.

—*B. minimum* ab. n. *punicum* Tunis p. 156, NORMAND Bull. Soc. Hist. nat. Afr. N. 24 1933.—*B. jamaicense* sp. n. Jamaica p. 76, DARLINGTON Psyche 41.—*B. vulcanium* Costa Rica p. 157, *sanctae-marthae* p. 158, *subapterum* p. 159 Colombia, *spp. n.*, DARLINGTON Occ. Pap. Boston Soc. n.H. 8.—*B. reinigi* sp. n. p. 154; *terminale* subsp. n. *kirgisorum*; *almum* subsp. n. *protalmum* p. 155 Pamirs, NETOLITZKY Dtsch. ent. Z. 1933.—*B. ixion*, *hutchinsoni* Indian Tibet p. 26, *eupages* Kashmir p. 27, *spp. n.*, ANDREWES Mem. Conn. Acad. Arts Sci. 10.—*B. idriae* sp. n. Venezia p. 65, MESCHNIGG Ent. Anz. 14.

Brachinus stygius sp. n. Java p. 284, ANDREWES Treubia 12 1933.—*B.* key to African p. 19, *connectus* subsp. n. *ovalis* Kamerun; *langenhani* Africa p. 23, *laevicostis* Senegal p. 24, *stappersi* Congo p. 26, *methneri* p. 32, *sexnotatus* p. 33 E. Africa, *forticostis* p. 35, *aristokratus* S. Africa, *scotti* Abyssinia p. 36, *ghindanus* Eritrea p. 40, *kollari* Kordofan p. 42 *spp. n.*; *lepieuri* varr. n. *confluens* p. 29, *melanopes*, *relictus* p. 30 N.W. Rhodesia; *armiger* varr. n. *fasciatus* Transvaal, *isolatus* N.W. Rhodesia p. 46 figs., LIEBKE Mem. Soc. ent. Belg. 24.—*B. crepitans* f.n. *rufothoracicus* Bukovina p. 161, MARCU Bul. Fac. Sti. Cernaūti 3 1929.

Bradycellus verbasci var. n. *distinguendus* Tunis p. 163, NORMAND Bull. Soc. Hist. nat. Afr. N. 24 1933.—*B. cubanus* p. 110, *velatus* p. 111, *spp. n.* Cuba, DARLINGTON Psyche 41.

Calathus amplius sp. n. Teneriffe p. 296, de la ESCALERA Bol. Soc. esp. H.n. 21 1921.—*C.* (= *Pristodactyla*), characters p. 209, key to Indian spp., *algens* p. 210, *gelascens*, *leurops*, *braccatus* p. 211, *macer* p. 212, *suffuscus* p. 217, *glacialis*, *raptor* p. 219, *rubrioris* p. 220 Kashmir, *aquilo* p. 212, *sikkimensis* Sikkim, *pallipes*, *adelosia* p. 213, *xanthopus*, *championi* p. 214, *chambae* p. 215, *edax*, *minutalis*, *leptodes* p. 216, *flavus* p. 220 India, *tibetanus* Tibet p. 214, *chlorodes* p. 217, *acraeus* p. 220, *quadricolor*, *aereipennis* p. 222 Assam, *spp. n.* figs., ANDREWES Stylops 3.

Calleida horni Peru, *melzeri* Brazil, *spp. n.* p. 279, LIEBKE Arb. morph. tax. Ent. Berl. 1.—*C. tinctula* sp. n. Cuba p. 117, DARLINGTON Psyche 41.

Calosoma subgen. n. *Epipara* p. 93, LAPOUGE Misc. ent. 32 1930.—*C. arrowianum* sp. n. Tibet 7 p. 48; additions and corrections to monograph in Kol. Rdsch. 1927, 1928 & Wien. ent. Ztg. 1927 pp. 36–38, *strandii* sp. n. Eritrea p. 38 8, BREUNING Folia zool. hydrobiol.

Carabus spp. in Yonne p. 79, COMON Bull. Soc. Sci. H.n. Yonne 86 1933.—*C. glabratus* subsp. n. *carinthianus* Carinthia p. 8; *cancellatus* subsp. n. *maderi* Austria p. 19, BORN Soc. ent. 30 1915.—*C.* subgen. n. *Indocarabus* p. 119, LAPOUGE Carabes nouveaux ou mal connus (pub. with Misc. ent. 25 1921).—*C.* monograph of European spp. pp. 915–1120, *thianschanensis* p. 921, *chan* p. 937, *merzbacherianus*, *semenoviellus*, *thian-shanskii* p. 952, *rückbeili* p. 953, *semenovianus* p. 1014, *rufescens* p. 1017, *kokensis* p. 1018 spp. n. *Dsungarei*; *brandti* subsp. n. *gansuanus* China p. 978; *macrogonus* subsp. n. *resplendens* Anatolia p. 992; *adamsi* subsp. n. *pseudoarmeniacus* Armenia p. 1006; *intricatus* subsp. n. *weiratheri* Corfu p. 1046, BREUNING Bestim.-Tab. europ. Col. Heft 108.—*C. granulatus*, *arvensis*, *cancellatus* characters pp. 168–169 figs., PUISSÉGER Bull. Mus. H.n. Toulouse 65 1933. *C. cancellatus*, *granulatus* geographical variation pp. 161–186 figs., ZARAPKIN Arch. Naturgesch. (N.F.) 3.—*C. problematicus* rr. n. *navarrensis* Spain, France p. 67, *iserensis* France, *della-beffae* Alpes Maritimes p. 68, VENET Misc. ent. 35.—*C. menetriesi* distribution, Böhmerwalde p. 36, TANZER Ent. NachrBl. 8.—*C.* spp. of Finland pp. 36–45, *problematicus* var. n. *relictus* p. 41; *violaceus* var. n. *carelicus* p. 44 Finland figs., HELLÉN Notul. ent. 14.—*C. tatsienlui* sp. n. China p. 48, BREUNING Folia zool. hydrobiol. 7.—*C. vanvolcemi* see *Nippocarabus*.

Carterus boschi p. 116, *kulzeri* p. 117, spp. n. Syria, SCHAUBERGER Kol. Rdsch. 20.

Ceroglossus corrections to monograph in Eos 1928 p. 40, BREUNING Folia zool. hydrobiol. 8.

Chlaenius nitidulus morphological notes p. 58, MÜLLER Kol. Rdsch. 20.—*C. leucoscelis* & subsp. *cordicollis* discussed p. 115, DARLINGTON Pan-Pacific Ent. 10.—*C. congoanus* p. 2, *lobozianus*, *ungorensis*, *liothorax* p. 3,

oligochrysus, *cabrai* p. 4, *carnoti*, *amydrus* p. 5, *diephelus* p. 6, *alberti* p. 7, *platynoides*, *sassanus* p. 8, *opistographus* p. 9, *bequaerti* p. 10, *sumptuosus* E. Africa p. 11, *monardi* Angola p. 12, spp. n., Belgian Congo, ALLUAUD Afra no. 8.

Chydacus key p. 69, *salvazae* Tonkin p. 9, *javanicus* Java p. 71, spp. n., SCHAUBERGER Ent. Anz. 14.

Clivina addita Porto Rico p. 67, *cubae* Cuba p. 68, spp. n., DARLINGTON Psyche 41.

Coleolissus nitens sp. n. Java p. 279, ANDREWES Treubia 12 1933.

Colliuris picta suturalis Chd. (= *concluda* Liebke); *gundlachi* p. 122, *noah* p. 123, spp. n. Cuba fig., DARLINGTON Psyche 41.

Colpodes key p. 14, *metrius* sp. n. Mauritius p. 15, ALLUAUD Afra no. 7 1933.—*C.* key to W. Indian spp. p. 92. *cinchonae* p. 93, *macer* p. 94, *vagapunctatus* p. 95 Jamaica, *fractilinea* Haiti p. 96, spp. n. fig., DARLINGTON Psyche 41.

Coptia sauricollis p. 88, *effeminata* p. 89, spp. n. Cuba, DARLINGTON t.c.

Coptodera luzonensis, *andrewesi* spp. n. Philippines p. 16, JEDLIČKA Acta Soc. ent. Čsl. 31.

Coptolabrus pustulifer varr. n. *pulvillata*, *szechwanensis* China p. 36, BREUNING Folia zool. hydrobiol. 8.

Crepidogaster key to African spp. p. 72, *grossus* S.W. Africa p. 78, *langenhani* p. 79, *hubenthali* p. 80, *methneri* p. 81, *holtzi* p. 87 E. Africa, *erlangeri* Abyssinia p. 79, *dollmani* p. 81, *ornatus* p. 82 N.W. Rhodesia, *sambesiacus* Zambesi, *sansibaricus* (with var. n. *scutellatus* p. 86) Zanzibar p. 84, *cicatricosus* Transvaal p. 86, *schroederi* Natal p. 87, spp. n. figs., LIEBKE Mem. Soc. ent. Belg. 24.

Crepidopterus morosus, *arrowi* spp. n. p. 129; *venator* subsp. n. *atrox* p. 130 Madagascar, BÄNNINGER Rev. franç. Ent. 1.

Cychnus kozlovi p. 213, *kaznakovi* p. 214, spp. n. E. Tibet, SEMENOV-TIAN-SHANSKIĬ & ZNOIKO Bull. Soc. ent. Fr. 39.

Cymindis key to spp. from Centr. Europe, Italy & Balkans p. 51, MÜLLER Kol. Rdsch. 20.—*C. subarcticus* sp. n. Kurile Is. p. 96 fig., KANO Bull. biogeogr. Soc. Japan 4 1933.—*C.* notes on some Italian spp. pp. 170–173, *coadunata* subsp. n. *luigionii* Italy p. 171, MÜLLER Boll. Soc. ent. ital. 66.—*C. rubriceps* sp. n. India, Tibet p. 27, ANDREWES Mem. Conn. Acad. Arts Sci. 10.—*C. setifensis* subsp. n. *brevitarse* Algiers p. 169 (note), NORMAND Bull. Soc. H.n. Afr. N. 24 1933.

Deltomerus punctatissimus var. n. *punicus* Tunis p. 159, NORMAND t.c.

Dicranoncus vulpinus sp. n. Java p. 27, ANDREWES Treubia 12 1933.

Dioryche torta synonymy of subsp.; subsp. n. *timorensis* Timor I., *formosensis* Formosa p. 12, SCHAUBERGER Ent. Anz. 14.

Ditomus tanaiticus sp. n. Russia p. 177, LUČNIK Rev. Ent. U.R.S.S 25 1933.

Dolichocarabus subgen. n. see *Apotomopterus*.

Dolichoclitus pumila sp. n. Java p. 285, ANDREWES Treubia 12 1933.

Dromius longiceps p. 49, *quadrimaculatus*, *melanocephalus* p. 50 morphology figs., MÜLLER Kol. Rdsch. 20.—*D. alpinus* sp. n. Morea p. 66, MESCHNIG Ent. Anz. 14.

Duvalius comes sp. n. p. 119; *exaratus* subsp. n. *lubnicensis* p. 121 Jugoslavia figs., SCHEIBEL Kol. Rdsch. 20.—*D. hutheri* sp. n. Taurus p. 20, JEANNEL Bull. Soc. ent. Fr. 39.—*D. hutheri* sp. n. Persine, Asia Minor p. 161 figs., JEANNEL Ann. Soc. ent. Fr. 103.

Dyscherus pseudomandibularis p. 124, *nigrita* p. 125, *ovatus*, *rugatus* p. 126, *altuandi* p. 127, *mocquerysi* p. 128, spp. n. Madagascar, BÄNNINGER Rev. franç. Ent. 1.

Dyschirius of Morocco pp. 181–190, *nitidus* subsp. n. *maroccanus* p. 182; *rufocaneus* subsp. *antoinei* ab. n. *pueli*; *pusio* sp. n. p. 188 Morocco figs., ANTOINE Bull. Soc. Sci. nat. Maroc 13.—*D. makolskii* sp. n. Poland; *obscurus* var. n. *sublucidus* p. 54; *salinus* subsp. n. *klynstrai* Holland, *tenuistriatus* Tunis p. 55, MÜLLER Kol. Rdsch. 20.—*D. coamensis* sp. n.

Porto Rico p. 2, MUTCHLER Amer. Mus. Nov. no. 686.—*D. helleni* Müll. (= *norvegicus* Munst.) p. 52, HELLÉN Notul. ent. 14.

Elaphrus angusticollis Sahlb. (= *jakolevi* Sem.) p. 53, HELLÉN t.c.—*E. cupritarsis* Bänn. (= *rubescens* Ant.) p. 92, HEPF Ent. Bl. 30.

Epipara subgen. n. see *Calosoma*.

Eremocarabus subgen. n. see *Mimocarabus*.

Eucaerus insularis sp. n. Cuba p. 120, DARLINGTON Psyche 41.

Eucarabus itzingeri sp. n. China p. 32, BREUNING Folia zool. hydrobiol. 8.

Euferonia key p. 199, *iripennis* p. 200, *washingtonensis* spp. n. p. 203 (with var. n. *rufitarsis* p. 204) U.S.A., NICOLAY & WEISS J. N.Y. ent. Soc. 42.

Euplynes viridis sp. n. Java p. 282, ANDREWES Treubia 12 1933.

Eurysoma see *Eurysomides*.

Eurysomides n. n. for *Eurysoma* Gist. nee Koch p. 78, STRAND Arch. Naturgesch. 82 1917 A5.

Eutomopterus subgen. n. see *Apotomopterus*.

Galerita insulindae sp. n. Java p. 280, LIEBKE Arb. morph. tax. Ent. Berl. 1.—*G. microcostata* sp. n. Porto Rico p. 124, DARLINGTON Psyche 41.—*G. loreuta* sp. n. Java p. 283, ANDREWES Treubia 12 1933.

Genycerus gen. n. p. 277, *lucanoides* sp. n. Java p. 278, ANDREWES t.c.

Glyptolenus simplicicollis sp. n. Dominica p. 97, DARLINGTON Psyche 41.

Harpaloamara subgen. n. see *Amara*.

Harpalus redikorzevi p. 21, *sushkini* p. 22, spp. n. Siberia, LUČNIK Trav. Inst. zool. Acad. Sci. U.R.S.S. 2.—*H. smaragdinus* subsp. n. *reinigi* Alai p. 149; *rhemboides* subsp. n. *conradti* Pamirs p. 152, SCHAUBERGER Dtsch. ent. Z. 1933.—*H. indicola* subsp. n. *finitimus*; *praecurrens* p. 236, *adventicius* p. 237 China, *rufitarsoides* Atlas p. 239 spp. n.; *sulphuripes* subsp. n. *lucidipennis* Morocco; *dissitus* Ant. a sp. p. 238 figs., SCHAUBERGER Stylops 3.

Hyparpalus apodemus sp. n. E. & Centr. Africa p. 14, ALLUAUD Afra no. 8.

Indocarabus subgen. n. see *Carabus*.

Isiocarabus strandiellus sp. n. China p. 31, BREUNING Folia zool. hydrobiol. 8.

Laemostenus schreibersi carinthiacus larva pp. 80-88 figs., STROUHAL Mitt. Höhlen- u. Karstf. 1934.

Lasiotrechus discus new to N. America p. 168, CHAGNON Canad. Ent. 66.

Lebia fulvicollis F. (& subsp. *thoracica* Hoppe & Hornschuch) & *pubipennis* synonymy p. 48, MÜLLER Kol. Rdsch. 20.—*L. andrewesi* Yunnan, *obenbergeri* Borneo, *purkyněi*, *luzonensis* p. 13, *stichai* Philippines, *szetschuana* China p. 14, spp. n. JEDLIČKA Acta Soc. ent. Csl. 31.—*L. imperfecta* Amazonas p. 275, *tropica* Brazil, *vilcanota* p. 276, *horni*, *declivis* p. 277, *distigma*, *furcatula* p. 278 Peru, spp. n. fig., LIEBKE Arb. morph. tax. Ent. Berl. 1.

Leptocarabus seishinensis sp. n. Korea p. 597; subgen. n. *Asthenocarabus* p. 591, LAPOUGE Gen. Ins. 192c 1932.

Limnastis americanus sp. n. Cuba p. 83 fig., DARLINGTON Psyche 41.

Lionychus quadrillum distribution in Germany p. 7, HEPP Ent. Rdsch. 51.

Lissopogonus poecilus sp. n. Java p. 175, ANDREWES Treubia 12 1933.

Loxandrus nocticolor sp. n. Cuba p. 91, DARLINGTON Psyche 41.

Lyperocarabus subgen. n. see *Morphocarabus*.

Mascarenhia gen. n. for *Thyreopteris subappendiculatus* Dej. p. 15, ALLUAUD Afr. no. 7 1933.

Masoreus ciliatus sp. n. Porto Rico, Cuba p. 130 fig., MUTCHLER Psyche 41.—*M. (Masoreus) wetterhali* life-history p. 69, RIOULT Misc. ent. 35.

Mastax key to African spp. p. 66, *tessmanni* Kamerun p. 67, *senegalensis* Senegal, *burgegni* Congo p. 68, spp. n. figs., LIEBKE Mem. Soc. ent. Belg. 24.

Megodontus septemcarinatus var. n. *altitudinorum* Abago p. 36, BREUNING Folia zool. hydrobiol. 8.

Mesocarabus problematicus var. *nicolasiellus* n. n. for var. *nicolasi* Ven. p. 34, BREUNING t.c.

Metabletus type *Lebia obscuroguttata* Duft. p. 201, ANDREWES Ent. mon. Mag. 70.—*M. bedeli* var. n. *apicalis* Tunis p. 166, NORMAND Bull. Soc. Hist. nat. Afr. N. 24 1933.

Microtopus parviceps Cuba p. 85, *insularis* Porto Rico p. 86, spp. n. fig., DARLINGTON Psyche 41.

Microlestes type *inconspicuus* Schm.-Goeb. p. 201, ANDREWES Ent. mon. Mag. 70.

Microplectes kiritschenkoï sp. n. Dsungarei p. 35, BREUNING Folia zool. hydrobiol. 8.

Mimocarabus subgen. n. *Anthracarabus* pp. 358 (1931) 668, *Eremocarabus* pp. 359 (1931) 670, LAPOUGE Gen. Ins. 192c 1932.

Miscodera arctica subsp. n. *hypsibia* E. Tyrol p. 53, SCHAUBERGER Ent. Anz. 14.

Morion costigerus sp. n. Jamaica p. 90, DARLINGTON Psyche 41.

Morphocarabus subgen. n. *Apo-carabus* p. 624, *Acrocarabus* p. 625, *Parhomopterus* p. 629, *Paracarabus* p. 630, *Basilicocarabus* p. 653, *Amorphocarabus* p. 656, *Lyperocarabus* p. 657, LAPOUGE Gen. Ins. 192c 1932.

Nebria Caucasian spp. pp. 89-98, key p. 95, KIRSHENBLAT Bull. Mus. Géorgie 7 1933.—*N. podifera* n. n. for *hellwigi* var. *fuscipes* Schaum nec Gist. p. 79, STRAND Arch. Naturgesch. 82 1917 A5.—*N. lafresnayei* biology sep. pp. 1-5, larva pp. 6-8 figs., RAYNAUD Misc. ent. 35.—*N. lafresnayei* r. n. *glacialis* France p. 24, PIC Echange 50.—*N. pedemontana* in Hautes-Alpes p. 44, DAILLÉ & PATER Misc. ent. 35.

Nippocarabus gen. n. for *Carabus vanvolzemi* Putz. p. 598, LAPOUGE Gen. Ins. 192c 1932.

Olisthopus Dej. type *Carabus rotundatus* Payk. p. 201, ANDREWES Ent. mon. Mag. 70.

Omestes gen. n. p. 276, *torta* sp. n. Sangi & Talaud Arch. p. 277, ANDREWES Treubia 12 1933.

Omphreus bischoffi sp. n. Greece p. 65, MESCHNIGG Ent. Anz. 14.

Oxycentropsis gen. n. for *Trichotichnus orinus* Andr. (type) p. 89; *matanganus* sp. n. Borneo p. 91, SCHAUBERGER Ent. Anz. 14.

Paracarabus subgen. n. see *Morphocarabus*.

Parena testacea var. n. *crualis* Java p. 286, ANDREWES Treubia 12 1933.—*P. rufotestacea* China p. 17, *andrewesi* Luzon p. 18, spp. n. JEDLIČKA Acta Soc. ent. Čsl. 31.

Parhomopterus subgen. n. see *Morphocarabus*.

Pentagonica nigricornis Cuba, *divisa* Porto Rico, spp. n. p. 121, DARLINGTON Psyche 41.

Perigona picea Haiti, Cuba, Santo Domingo p. 98, *microps* Porto Rico p. 99, spp. n., DARLINGTON t.c.

Perileptus columbus Cuba p. 86, *jeanneli* Jamaica p. 87, spp. n. fig., DARLINGTON t.c.

Peryphus gisteli n. n. for *tricolor* Gist. nec F. p. 79, STRAND Arch. Naturgesch. 82 1917 A5.

Phloeoxena plagiata, *imitatrix* p. 114, *schwarzi* p. 115, spp. n. Cuba fig., DARLINGTON Psyche 41.

Platyderus brevili sp. n. Spain p. 55 fig., JEANNEL Bol. Soc. esp. H.n. 21 1921.

Platysma abditum sp. n. Siberia p. 19, LUČNIK Trav. Inst. zool. Acad. Sci. U.R.S.S. 2.

Pogonus meridionalis ab. n. *iltshevi*; *cumanus* abb. n. *bureshi* p. 104, *laevicollis* p. 105 Ciscaucasia, LUČNIK Mitt. bulg. ent. Ges. 8.

Pristodactyla see *Calathus*.

Proditomus gen. n. p. 232, *mirus* sp. n. Turkestan p. 233, SCHAUBERGER Stylops 3.

Pseudaptinus key p. 372, *salebrosus* p. 375, *arrogans* p. 385, *bierigi* p. 387 Cuba, *magicus* p. 376, *nobilis* p. 380, *simplex* p. 382 Mexico, *championi* Panama, *cribratus* Amazonas p. 377, *ohausi* Ecuador p. 378, *punctatus* Brazil p. 380, *aptinoides* Venezuela p. 381, *mimicus* p. 379, *brunneus* p. 383, *bruchi* p. 384 Argentina, *lugubris* Bolivia, *fluvialis* Brazil, Argentina p. 386, spp. n. LIEBKE Rev. Ent. Rio de J. 4.—*P.* key to W. Indian spp. p. 125, *apicalis*, *marginicollis* p. 126, *deceptor* p. 128 Cuba, *thaxteri* Grenada p. 127, spp. n. fig., DARLINGTON Psyche 41.—*P. insularis* sp. n. Porto Rico p. 4, MUTCHLER Amer. Mus. Nov. no. 686.

Pseudaristus key to spp., *modestus* Schaum (= *elegans* Coyle) p. 235, SCHAUBERGER Stylops 3.

Pseudoamara subgen. n. see *Amara*.

Pseudophonus griseus new to Finland, p. 127, HELLÉN Memor. Soc. Fauna Fl. fenn. 9.

Pterostichus interstinctus subsp. n. *mainardii* Italy p. 35; *morio* varr. in Apennines pp. 36–37, var. n. *luigionii* Apennines p. 36; m. var. *samniticus* Fiori (= *solari* Schatz.) p. 38, STRANEO Boll. Soc. ent. ital. 66.—*P. sterbai* Yunnan p. 18, *pohnerti* China p. 19, spp. n., JEDLIČKA Acta Soc. ent. Čsl. 31.

Sarothrocrepis andrewesi sp. n. Philippines p. 14 fig., JEDLIČKA t.c.

Scaphinotus snowi ♂ p. 193 figs., NICOLAY & WEISS J. N.Y. ent. Soc. 42.

Scarites montanus sp. n. Porto Rico p. 1, MUTCHLER Amer. Mus. Nov. no. 686.—*S. seyrigi* sp. n. Madagascar p. 130, BÄNNINGER Rev. franç. Ent. 1.

Schizogenius arimao sp. n. Cuba p. 71, DARLINGTON Psyche 41.

Scopodes irregularis sp. n. Java p. 284, ANDREWES Treubia 12 1933.

Scotodipnus xaxarsi sp. n. Spain p. 125 figs., ZARAQUIEY Butll. Inst. catal. H.n. 19 1919.

Selenophorus key to W. Indian spp. p. 103, *parvus* Porto Rico p. 105, *solitarius* Cuba p. 106, *haitianus*, *cyaneopacus* Haiti p. 107, *latior* Santo Domingo, Porto Rico, *nonseriatus* Santo Domingo p. 109, spp. n., DARLINGTON Psyche 41.—*S. puertoricensis* sp. n. Porto Rico p. 5, MUTCHLER Amer. Mus. Nov. no. 686.

Simous nubilus sp. n. Java p. 275, ANDREWES Treubia 12 1933.

Sophroferonia gen. n. p. 12, *parvitaris* sp. n. Mauritius p. 13, ALLUAUD Afra no. 7 1933.

Sphodristocarabus adamsi subsp. *armeniacus* var. n. *rugatus* Abchasia p. 35, BREUNING Folia zool. hydrobiol. 8.

Sphodrus leucophthalmus egg, larva pp. 102–111 fig., BOLDORI Boll. Soc. ent. ital. 66.

Stenocrepis subdepressus sp. n. Haiti p. 101, DARLINGTON Psyche 41.

Stenolophus type *Carabus teutonius* Schrank p. 200, ANDREWES Ent. mon. Mag. 70.

Stenomorphus manni sp. n. Haiti p. 102, DARLINGTON Psyche 41.

Styphlomerus key to African spp. p. 46, *foveatus* p. 54, *neavei* (with subsp. n. *katanganus*) p. 57, *methneri* p. 64 E. Africa, *kisantuis* p. 54, *burgeoni* p. 65 Congo, *ciliatus* Kamerun p. 55, *amplus* Sierra Leone p. 56, *ovalipennis* E. Africa, Rhodesia, Congo p. 58 spp. n.; *ludicrus* varr. n. *quadrigurus* p. 60, *flavus* E. Africa, *grandis* Congo p. 62; *titschacki* varr. n. *erlangeri*, *reductus* Abyssinia p. 64 figs., LIEBKE Mem. Soc. ent. Belg. 24.

Systolocranius ingens sp. n. Belgian Congo p. 16, ALLUAUD Afra no. 8.

Tachys key to Mauritian spp. p. 3; *Trepanotachys* subgen. n. p. 4, scope of and key to spp. pp. 17-20; *tetraphacus* var. n. *euryphacus* p. 5; *vinsoni*, *mameti* spp. n. p. 7 Mauritius no. 7 1933; *senegalensis* sp. n. Senegal p. 13 no. 8 figs., ALLUAUD Afra.—*T. ensenadae* sp. n. Porto Rico p. 3, MUTCHLER Amer. Mus. Nov. no. 686.—*T. piceus* sp. n. England p. 7, EDMONDS Ent. mon. Mag. 70.—*T. nevermanni* sp. n. Costa Rica p. 160, DARLINGTON Occ. Pap. Boston Soc. n.H. 8.—*T. hispaniolae* Haiti p. 77, *cubax* p. 78, *paulax* p. 80, *striax* p. 82, *filax* p. 83 Cuba, *abruptus* Guadeloupe, Dominica p. 80, *dominicanus* Dominica p. 81, spp. n., DARLINGTON Psyche 41.

Tefflus sp. larva p. 189 figs., BURGEON Bull. Ann. Soc. ent. Belg. 74.—*T.* of Paris Museum pp. 221-234, BASILEWSKY Rev. franç. Ent. 1.—*T. eximius* sp. n. E. Africa; *carinatus* var. n. *helenae* N.E. Rhodesia; *viridanus* var. n. *gangiensis* Tanganyika p. 239, BASILEWSKY Bull. Soc. ent. Fr. 39.

Tetragonoderus andrewesi sp. n. Java p. 196, VAN EMDEN Ent. Bl. 30.

Thyreopteris subappendiculatus see *Mascarenhia*.

Trachelocyphoides gen. n., *punctatus* sp. n. E. Africa p. 15, ALLUAUD Afra no. 8.

Trachelocyphus mirulus Tsch. from *Abacetus* p. 16 (note), ALLUAUD t.c.

Trachycarabus iteratus Dsungarei p. 33, *kungeicus* Alatau p. 34, spp. n., BREUNING Folia zool. hydrobiol. 8.

Trechus rottroui sp. n. Morocco p. 100, ANTOINE Bull. Soc. Sci. nat. Maroc 14.

Trepanotachys subgen. n. see *Tachys*.

Trichocellus type *Harpalus placidus* Gyll. p. 201, ANDREWES Ent. mon. Mag. 70.

Trichotichnus stevensi sp. n. Himalaya pp. 92, 99; *andrewesianus* n. n. for *punctulatus* Andr. nec Lutsh. pp. 92, 100, SCHAUBERGER Ent. Anz. 14.—*T. orinus* see *Oxycentropsis*.

Trymosternus of Morocco pp. 191-194, *colombati* sp. n. p. 192 (with subsp. n. *pecoudi* p. 194) Morocco figs., ANTOINE Bull. Soc. Sci. nat. Maroc 13.

Tschitscherinellus cordatus subsp. n. *fortepunctatus* Sicily, *minos* Crete p. 234, SCHAUBERGER Stylops 3.

RHYSODIDAE.

Clynidium rimoganense sp. n. Formosa p. 256 fig., MIWA Trans. n.H. Soc. Formosa 24.

HALIPLIDAE.

Haliplus furcatus in England p. 76, GIMINGHAM Ent. mon. Mag. 70.

Peltodytes wui sp. n. China p. 107, GSCHWENDTNER Peking n.H. Bull. 9.

DYTISCIDAE.

The proventriculus in Dytiscidae as a taxonomic character, BALFOUR-BROWNE Stylops 3 pp. 241-244, 5 pls.

Dytiscidae of E. Africa, PESCHET Voy. Babault Afr. or. angl. 1921 pp. 4-20.

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Revision of Palaearctic Colymbetinae, ZIMMERMANN Kol. Rdsch. 20 pp. 138-214.

Agabus gelidus Fall (= *pseudoconfertus* Wallis), *kenaiensis* Fall (= *palustris* Wallis) p. 171, FALL Pan-Pacific Ent. 10.

Coelambus a subgen. of *Hygrotus* p. 150, BALFOUR-BROWNE Ent. mon. Mag. 70.

Copelatus zimmermanni sp. n. China p. 143, GSCHWENDTNER Kol. Rdsch. 20.—*C. parumstriatus* sp. n. Belgian Congo p. 282, GSCHWENDTNER Rev. Zool. Bot. afr. 24.

Cybister feraudi sp. n. Ivory Coast p. 217, GUIGNOT Rev. franç. Ent. 1.

Deronectes (subgen. n. *Stictotarsus*, *Potamodytes* pp. 184-186), ZIMMERMANN Arch. Naturgesch. 83 1917 A12.—*D. characters* p. 177, key to subgen., British spp., type discussed p. 179 figs., BALFOUR-BROWNE Ent. mon. Mag. 70.—*D. depressus*, *elegans*, critical notes no. 205 pp. 19-20; pp. 41-49 no. 206 figs., BALFOUR-BROWNE Scot. Nat.

Gaurodytes palaestinus sp. n. Palestine, Persia p. 164, ZIMMERMANN Kol. Rdsch. 20.

Graptodytes bremondi sp. n. Morocco p. 217, GUIGNOT Rev. franç. Ent. 1.

Hydroporus discussion and list of British spp. pp. 193-197, 247-255, discussion of subgen. pp. 225-230 figs., BALFOUR-BROWNE Ent. mon. Mag. 70.—*H. brumalis* Brown, *compertus* Br., *falsificus* Br. varr. of *planiusculus* p. 171, FALL Pan-Pacific Ent. 10.—*H. zimmermanni*, *tessellatus* characters; *bicolor* sp. n. Italy p. 202 figs., MÜLLER Boll. Soc. ent. ital. 65 1933.

Hydrovatus macrocephalus, *pulcher* spp. n. Tanganyika p. 93, GSCHWENDTNER Ent. Anz. 14.

Hygrotus scope discussed pp. 146-150 figs., BALFOUR-BROWNE Ent. mon. Mag. 70.

Hyphydrus opiparus Uganda, *lenticinosus* Mt. Ruwenzori p. 268, *jeanneli* Burma p. 269. spp. n., GUIGNOT Bull. Soc. ent. Fr. 39.

Ilybius ovalis sp. n. Siberia; *fuliginosus* subsp. n. *turcestanicus* Turkestan p. 74, GSCHWENDTNER Ent. Anz. 14.

Lacconectus scholzi Gschw. (= *bicolor* Zim.) p. 73, GSCHWENDTNER t.c.

Laccophilus maculosus activities p. 49, GAMBLE Ent. News 45.—*L. hyalinus* DeG., *variolosus* Hbst., *variegatus* Germ. synonymy, p. 131, BALFOUR-BROWNE Ent. mon. Mag. 70.

Noterus clavicornis DeG., *capricornis* Hbst. synonymy p. 128, BALFOUR-BROWNE t.c.

Oreodytes discussion pp. 193-197, British spp. p. 197, BALFOUR-BROWNE t.c.

Potamodytes subgen. n. see *Deronectes*.

(N-4573 j)

Rhantus colymbitoides Gsch. 1932 corrected to *colymbetoides* p. 94, GSCHWENDTNER Ent. Anz. 14.

Sandracottus angulifer sp. n. Mindanao p. 280 fig., HELLER Philipp. J. Sci. 54.

Stictotarsus subgen. n. see *Deronectes*.

Yola babaulti p. 10, *grandicollis* p. 11, spp. n. E. Africa figs., PESCHET Voy. Babault Afr. or. angl. 1921.

GYRINIDAE.

Gyrinidae of China (tabulation of characters p. 231), CHEO Peking n.H. Bull. 8 pp. 205-237, 2 pls.

Gyrinidae of Hohenau, Paraguay, JACOB Ent. Jb. 1935 1934 pp. 101-108, 1 pl.

Gyrinidae from E. Africa, PESCHET Voy. Babault Afr. or. angl. 1921 pp. 20-22.

Dineutus ritsemai subsp. n. *bougainvilleanus* Bougainville p. 101, OCHS Mitt. schweiz. ent. Ges. 16.

Gyretes funestus p. 138, *luctuosus* (with f. n. *nitidus*) p. 140 Paraguay, *dimorphus* p. 142, *plaumanni* p. 145, *plagiatus*, *hoffmanni* p. 147 (with ff. n. *aemulus*, *wenzeli* p. 148), *torrenticola* p. 149 Brazil, *convexior* Amazonas p. 143, *sculpturatus* Parana p. 144, spp. n. figs., OCHS Senckenbergiana 16.

Gyrinus notes on some German spp. pp. 185-186, FRANCK Ent. Bl. 30.—*G. tsingtaoriensis* sp. n. China p. 212 figs., CHEO Peking n.H. Bull. 8.

Macrogyrus ovatus sp. n. Admiralty Is. p. 100, OCHS Mitt. schweiz. ent. Ges. 16.

Orectochilus regimbarti subsp. n. *odaiensis* p. 242; *teranishii* sp. n. p. 243 Japan, KAMIYA Kontyû 7 1933.—*O. coracinus* p. 203, *latipes* p. 205, *borneonensis* p. 207, *brevitarsis* p. 208, *mjöbergianus* p. 210, spp. n. Borneo fig., FALKENSTRÖM Zool. Anz. 107.

Orectogyrus convexus p. 220, *riggenbachii* p. 222, *socius* p. 226, *nannus* p. 234, *dunkeli* p. 360, *acuminatus* p. 374 Kamerun, *laticeps* p. 220, *ahlwarthi* p. 223 Ruwenzori, *gigas* p. 227, *aureus*, *pallidiventris* p. 372 Belgian Congo, *rotundatus* Bulegga p. 229, *hancocki* Uganda p. 367, *neumannii* S. Abyssinia p. 369, *furcatus* Sierra Leone p. 374 spp. n.; *conjungens* var. n. *abbreviatus* Kamerun; *leroyi*

subsp. n. *angusticostis* E. Africa p. 362; *dahomeensis* subsp. n. *flavescens* Kamerun p. 363; *katangensis* subsp. n. *overlaeti* p. 365, *gerardi* p. 366 Belgian Congo; *bicostatus* subsp. n. *togoensis* Togo p. 371; *uelliensis* subsp. n. *nigriventris* Belgian Congo p. 373; *alternatus* n. n. for *schubotzi* Ochs nec Ahl. p. 376; *schubotzi* Ahl. (= *laticeps* Ochs); *ruwenzoricus* Ahl. (= *ahlwarthi* Ochs) p. 378, OCHS Rev. Zool. Bot. afr. 25.

Platambus fimbriatus excoffieri Reg. from *Platynectes* p. 73, GSCHWENDTNER Ent. Anz. 14.

Platynectes excoffieri see *Platambus*.

STAPHYLINIDAE.

Staphylinidae of Ghirinsk Prov., Manchuria, ALEKSANDROV Ann. Club Sci. Geogr. Y.M.C.A. 1 pp. 150-155.

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Catalogue of Staphylinidae VIII: Suppl. ii, SCHEERPELTZ Col. Cat. 130 pp. 1501-1881.

Acanthoglossa pictipennis sp. n. New Hebrides p. 22, CAMERON Stylops 3.

Acanthophaena subgen. n. see *Gyrophaena*.

Acrothoraconia subgen. n. see *Zyras*.

Actobius altissimus p. 235, *ruwenzoriensis* p. 236, spp. n. *Ruwenzori*, BERNHAUER Rev. Zool. Bot. afr. 24.

Aleochara handschini Australia, Java p. 132, *windredi* Australia p. 137, spp. n.; key to spp. of subgen. *Isochara* in Palaearctic, Oriental and Australian Region p. 142 figs., SCHEERPELTZ Rev. suisse Zool. 41.—*A. handschini*, *windredi* morphology, biology pp. 54-59 figs., HANDSCHIN Rev. suisse Zool. 41.—*A. bicoloripennis* sp. n. Mashonaland, N.W. Rhodesia, Belgian Congo p. 248, BERNHAUER Rev. Zool. Bot. afr. 24.—*A. longipennis* sp. n. China p. 20, BERNHAUER Ent. NachrBl. 8.

Alloceraea subgen. n. see *Atheta*.

Amelinus collarti sp. n. Congo p. 373, CAMERON Bull. Ann. Soc. ent. Belg. 74.

Anisopsis carinata var. n. *rugulipennis* Natal p. 487, BERNHAUER Ann. S. Afr. Mus. 30.

Anthobium pseudaucupariae n. n. for *aucupariae* Kiesw. nec Gist. p. 80, STRAND Arch. Naturgesch. 82 1917 A5.—*A. metasternale* ab. n. *lybicum* Tunis p. 357, NORMAND Bull. Soc. H.n. Afr. N. 25.

Anthophagus revision, distribution pp. 136-188, 193-238, key p. 136, *caraboides* f. n. *aquilonaris* Sweden p. 171; *bicornis* f. n. *solarii* Apennines p. 177; *torre-tassoi* f. n. *pollinensis* Lucania p. 188; *alpinus* abb. n. *pseudosudeticus* Germany p. 200, *apurtianus* Italy p. 201; *angusticollis* r. n. *roubali* Caucasus p. 214 figs., KOCH Stett. ent. Ztg. 95.

Apimela gracilis sp. n. Tunis p. 385, NORMAND Bull. Soc. H.n. Afr. N. 25.

Aploderus szechuanensis sp. n. China p. 2, BERNHAUER Ent. NachrBl. 8.

Apostenolus subgen. n. see *Staphylinus*.

Astenus rufulus sp. n. Brazil, Argentina p. 158, BERNHAUER Stylops 3.—*A. sinuaticollis* sp. n. U.S.A. p. 29 fig., BIERIG Mem. Soc. cubana H.n. 8.—*A. burgeoni*, *oligopterus* p. 233, *kiuensis* p. 234, spp. n. Belgian Congo, BURGEON Rev. Zool. Bot. afr. 24.

Astilbus ruwenzoriensis sp. n. *Ruwenzori* p. 247, BERNHAUER t.c.

Atheta revision of subgen. *Plataraea*, *Aerostiba* pp. 161-166, 203-208, *Alloceraea* subgen. n. p. 164, BENICK Ent. Bl. 30.—*A. iguensis* p. 19, *submetallica*, *ladakiana* p. 20, *hutchinsoni* p. 21, spp. n. India Tibet, CAMERON Mem. Conn. Acad. Arts Sci. 10.—*A. bohmei* sp. n. Germany p. 54, LINKE Ent. Bl. 30.—*A. convictrix* sp. n. Tunis p. 381 fig. NORMAND Bull. Soc. H.n. Afr. N. 25.—*A. ermischi* sp. n. Germany p. 95, BENICK Kol. Rdsch. 20.—*A. malekulana* sp. n. New Hebrides p. 19, BERNHAUER Stylops 3.—*A. hwayinshana* p. 14, *nubila* p. 15, *nubipennis*, *nigrosplendens* p. 16, *obscuripes*, *sculpticollis* p. 17, *sulcifer* p. 18, *gratiosa* p. 19, spp. n. China, BERNHAUER Ent. NachrBl. 8.—*A. suprema* p. 244, *burgeoniana* *Ruwenzori*, *mombasana* Mombasa p. 246,

montanella Belgian Congo p. 245 24,
mombassana Mombasa p. 214 25, spp. n.,
 BERNHAUER Rev. Zool. Bot. afr.—
A. tucumanensis p. 501, *pseudogemina*
 p. 502, *curta*, *missionum* p. 503, *pseudo-*
gagatina, *boxiana* p. 504, *caliginosa*,
transversicollis p. 505, *andina* p. 506,
 (*Pseudoleptonia* subgen. n.) *polyporina*
 p. 507, *basiventris*, *cornuta* p. 508,
missionensis, *pinguicornis* p. 509,
loretoensis p. 510, spp. n. Argentina,
 BERNHAUER Rev. Ent. Rio de J. 4.

Belonuchus boxi p. 212, *bruchii*,
tucumanensis p. 213, spp. n. Argentina,
 BERNHAUER t.c.

Bledius lépineyi sp. n. Fr. Sudan p. 94
 fig., SCHEERPELTZ Bull. Soc. Sci. nat.
 Maroc 14.—*B. orientalis* sp. n. Czecho-
 slovakia, Rumania p. 17, ROUBAL Ent.
 Tidskr. 55.—*B. erraticus* in Finland
 p. 160, HELLÉN Memor. Soc. Fauna Fl.
 fenn. 9.—*B. unicoloris* subsp. n. *gladia-*
tor; *osiris* sp. n. Tunis p. 361 fig.,
 NORMAND Bull. Soc. H.n. Afr. N. 25.—
B. diota characters p. 190, BENICK
 Ent. Bl. 30.—*B. withycombei* sp. n.
 Trinidad p. 157, BERNHAUER Stylops
 3.—*B. lamelliceps*, *semiopacus* p. 493,
lateripennis, *pruinosulus* p. 494,
 (*Pareibledius* subgen. n.) *alutellus* p.
 495, spp. n. S. Africa, BERNHAUER Ann.
 S. Afr. Mus. 30.—*B. immarginatus* p. 51,
transversemaculatus p. 52, *altjerii* p. 53,
scheerpeltzi p. 54 spp. n. Egypt; *tristis*
 subsp. n. *tripolitanus* p. 53 (note);
arenarius subsp. n. *fuscipennis* Tripolis
 p. 56 (note); key to Egyptian spp. p. 58
 figs., KOCH Bull. Soc. ent. Egypte 18.

Blepharrhymenus (*Blepharrhymorphus*
 subgen. n. p. 215) fig., IHSEN Ent. Bl.
 30.

Blepharrhymorphus subgen. n. see
Blepharrhymenus.

Bolitochara bonariensis sp. n. Argen-
 tina p. 409, BERNHAUER Rev. Ent. Rio
 de J. 4.

Bucephalinus subgen. n. see *Trogo-*
phloeus.

Cafus subtilis p. 65, *pruinus* p. 67
 further descriptions; *aguayoi* U.S.A.
 p. 66, *rufifrons* spp. n.; *corallicola*
 var. n. *caribaeus* Cuba p. 68 figs.,
 BIERIG Rev. Ent. Rio de J. 4.

Calodera nitida sp. n. Argentina p.
 219, BERNHAUER t.c.

Carcinocephalus distribution, key p.
 89, *bosnicus* sp. n. Bosnia p. 86 figs.,
 SCHEERPELTZ Kol. Rdsh. 20.

Chilopora indica sp. n. Punjab p. 375
 fig., CAMERON Rec. Ind. Mus. 35 1933.

Conosoma grandicole, *globicole* p. 241,
curticorne p. 242, spp. n. Belgian Congo,
 BERNHAUER Rev. Zool. Bot. afr. 24.

Coprophilus pennifer mouth-parts,
 predacious habits p. 94 fig., BUTCHKOV
 Rev. Ent. U.R.S.S. 25 1933.

Coproporus bruchianus p. 217, *sub-*
sulcatus, *punctatellus* p. 218, spp. n.
 Argentina, BERNHAUER Rev. Ent. Rio
 de J. 4.

Craspedomerus beckeri sp. n. W. China
 p. 11, BERNHAUER Ent. NachrBl. 8.

Creophilus villosus habits pp. 91–93,
 ABBOTT Ent. News 45.

Cryptobium loretoense p. 112, *höbarthi*
 p. 113, *novum*, *dubium* p. 114, *gomezi*
 p. 115 Argentina, *tremolerasi* Uruguay
 p. 114, *dubiosum* Brazil p. 115, spp. n.,
 BERNHAUER Rev. Ent. Rio de J. 4.—
C. quadratipenne p. 159, *plagiicollis* p.
 160, *angustulum*, *subaeneipenne* p. 161,
bisulcatum p. 162 Brazil, *parvipenne* S.
 America p. 160, *trinidadense* Trinidad
 p. 161 spp. n.; *hastiventris* subsp. n.
arroyi Brazil p. 160, BERNHAUER Stylops
 3.—*C. indicum* Kr. a sp. p. 21; *abdo-*
minale var. n. *coomani* Tonkin p. 22,
 CHAPMAN Bull. Soc. ent. Fr. 39.—
C. théryi sp. n. Fr. Sudan p. 95 fig.,
 SCHEERPELTZ Bull. Soc. Sci. nat. Maroc
 14.

Daya thais sp. n. Tunis p. 378 fig.,
 NORMAND Bull. Soc. H.n. Afr. N. 25.

Deleaster dichrous in Sweden p. 67,
 OLSSON Ent. Tidskr. 55; in Canada p.
 282, CHAGNON Canad. Ent. 66.

Delopsis consanguinea sp. n. Nilgiris
 p. 18, CAMERON Mem. Conn. Acad. Arts
 Sci. 10.

Demera obongenensis p. 374, *sororcula*
 p. 375, spp. n. Congo, CAMERON Bull.
 Ann. Soc. ent. Belg. 74.—*D. kalongeana*
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 spp. n. Ruwenzori, BERNHAUER Rev.
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Dibelonetes bicoloripes sp. n. Brazil
 p. 158, BERNHAUER Stylops 3.

Diestota chinensis sp. n. China p. 13, BERNHAUER Ent. NachrBl. 8.—*D. loretoensis, subnitida* p. 407, *nova* p. 408 spp. n. Argentina, BERNHAUER Rev. Ent. Rio de J. 4.

Dysanellus (*Leptodistemus* subgen. n.), *excellens* sp. n. Argentina p. 215, BERNHAUER t.c.

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Emus ruficornis see *Ontholestes murinus*.

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Exoctavius gen. n. p. 221, *bermudezi* sp. n. Cuba p. 222 fig., BIERIG t.c.

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Gyrophæna bosqui, boxi p. 219, *argentina, densula* p. 220, *globulosa* p. 221, spp. n. Argentina, BERNHAUER t.c.—*G. (Acanthophaena subgen. n.), lamellata, ruficeps* p. 23, *variabilis* (with varr. n. *emasculata, spinifera*) p. 24, spp. n. New Hebrides, CAMERON Stylops 3.—*G. ulukuensis* sp. n. Congo p. 375, CAMERON Bull. Ann. Soc. ent. Belg. 74.

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Lathropinus novus sp. n. Brazil p. 158, BERNHAUER Stylops 3.

Leptochirus collenettei sp. n. Colombia p. 156, BERNHAUER t.c.

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Medonella ferruginea sp. n. Cuba p. 326 fig., BIERIG Mem. Soc. cubana H.n. 8.

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Neocharidius see *Tachinus*.

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Palaminus australiae var. n. *hebridensis*; *proximus* sp. n. New Hebrides p. 21, CAMERON Stylops 3.

Paragonus sauteri var. n. *hebridensis* New Hebrides p. 21, CAMERON t.c.

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Paralister subgen. n. see *Hister*.

Phelister coeruleus, *iheringi* p. 215, *petro* p. 216 Brazil, *luculentus* Bolivia, *desbordesii* Fr. Guiana, *weberi* Venezuela p. 216, *severus* Paraguay p. 217 spp. n.; *brevis* n. n. for *parvulus* Mars. nec Erichs. p. 215, BICKHARDT Gen. Ins. 166B 1917.

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(including DISCOLOMIDAE).

Anommatus basalis, *diecki* characters p. 207 figs., LESNE Bull. Soc. ent. Fr. 39.—*A. weiratheri* sp. n. Greece p. 62, ROUBAL Mitt. dtsh. ent. Ges. 5.

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Cryptophagus of Scandinavia pp. 174-180, genitalia p. 163, *confusus* Finland, Norway p. 58, *intermedius* Denmark p. 59, *pseudodentatus* Sweden p. 168, *sporadum* S. Europe p. 160 spp. n.; *beringensis*, *lapponicus* characters p. 166; *hexagonalis* status discussed p. 171 figs., BRUCE Ent. Tidskr. 55.—*C. lindbergorum* sp. n. Finland p. 36, BRUCE Notul. ent. 14.

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ENDOMYCHIDAE.

Cereaxina gen. n. p. 169, *troglydites* sp. n. Fersine, Asia Minor p. 172 figs., JEANNEL Ann. Soc. ent. Fr. 103.—See *Reitteria* (Lathridiidae).

Lioclemmus gen. n. p. 172, *petiti* sp. n. Madagascar p. 173, JEANNEL t.c.—See *Displotera* (Lathridiidae).

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Anisolemnia formosana Cr., *aruensis* Cr. from *Coelophora* p. 36, KORSCHESKY Arb. morph. tax. Ent. Berl. 1.

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Hippodamia convergens swarming in July in N. Carolina p. 248, HAMAKER Science 80.—*H. hoppingi* sp. n. California p. 21, NUNENMACHER Pan-Pacific Ent. 10.

Hyperaspisidius horni New Jersey, *mexicanus* Mexico, spp. n. p. 19, NUNENMACHER t.c.

Hyperaspis biornatus p. 18, *leachi* p. 19, spp. n. California, NUNENMACHER t.c.

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Platynaspis stictica Crotch (= *weyersi* Ws.) subsp. n. *philippensis* Philippines p. 36, KORCHEFSKY t.c.—*P. luteorubra* larva p. 278 figs., KORCHEFSKY Arb. physiol. angew. Ent. Berl. 1.

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Sidis see *Mulsenella*.

Stethorus subgen. n. see *Scymnus*.

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BYRRHIDAE.

Byrrhus daisetsuzanus p. 129, *ekashi* p. 130, spp. n. Japan figs., KÔNO Ins. mats. 8.

Chelonarium revision of S. American spp. pp. 199–256, *Citharophorus*, *Dermestosoma* subgen. n. p. 203, *semi-vestitosum* p. 204, *gounellei* p. 205, *albidum*, *discoideale* p. 206, *albopubescentis* p. 207, *luteosparsum* p. 208, *basale* p. 209, *attenuatum* p. 210, *tessellatum*, *colosaeum* p. 211, *crassum*, *ebeninum* p. 212, *incrassatum*, *aureopilosum*, *crassiusculum* p. 213, *fumidicollis*, *rufipenne* p. 214, *excavaticollis*, *griseuscentis*, *parcepunc-*

tulatum p. 216, *latum*, *suturale*, *sub-suturale* p. 217, *subnudum* p. 218, *nigerrimum*, *subsplendens* p. 219, *stilbonotum*, *splendens*, *grave* p. 221, *dichroum* p. 222, *laetum*, *thoracicum* p. 224, *oblongum*, *erythrothorax*, *curtum* p. 225, *elegantulum*, *propinquum*, *sellatum*, *bahiense*, *vicinum* p. 226, *turgidum*, *obesum* (also Bolivia), *subobesum* p. 227, *nigripenne*, *circumflexum* p. 228, *fallax*, *anticevatum* p. 229, *parcepunctulatum* p. 230, *pubifrons*, *variegatum* p. 231, *tumidum* p. 233, *lucens*, *lucidum* p. 234, *angulicollis* p. 236, *obtruncatum* p. 237, *obtusicollis*, *semisanquineum* (also Bolivia) p. 238, *zonatum* p. 240, *ovatum* p. 241, *decipiens*, *longipenne*, *subellipticum*, *transverse-sulcatum* p. 242, *falsum*, *nigratum*, *oberthuri* p. 243, *fasciatum*, *oliva* p. 244, *brevicollis* p. 245, *stenothonax* p. 246, *cyphonotum*, *pulvinatum*, *dorsuosum* p. 247, *rugatipenne*, *subfasciatum*, *cavaticollis* p. 248, *subrubicundum*, *rubicundum* p. 249, *ogivalicollis*, *pulverulentum*, *melanarium* p. 250, *melancholicum*, *punctaticollis* p. 251, *simplex* p. 252, *punctumalbum*, *alboscitatum* p. 254, *imitator*, *fulvum* p. 255 Brazil, *corpulentum* p. 209, *luctuosum* p. 212, *parcecrenatum* p. 223, *aciculare* p. 228, *assimile* p. 232, *brevius* p. 237, *diverse-pubescentis* p. 245 Peru, *laeticollis* p. 209, *triste*, *convexum* p. 210, *aureomaculatum* p. 211, *strictum* p. 218, *tenuipubens* p. 219, *convexicollis* p. 221, *punctumochraceum* p. 228, *parallelum* p. 236, *gibbum* p. 251 Bolivia, *minusculum* p. 209, *brunneicollis* p. 214, *fusciventris* p. 220, *simillimum* p. 224, *latipenne* p. 233, *aethiops* p. 234, *depressicollis* p. 235, *lebasii* p. 237 (note), *apicecoriaceum* p. 238, *xanthotrichodes* p. 241, *coriaceipenne* p. 246, *lamprinulum* p. 254 Colombia, *ustulatum* p. 214, *bifoveatum* (with var. n. *pallidulum*) p. 219, *affine* p. 232, *albocinctum* p. 244, *elegans* p. 254 Venezuela, *nebulosum* p. 216, *frontale* p. 232, *punctatissimum* p. 233, *rufiventris* p. 235, *propensum* p. 237, *nebulosum* p. 239, *elongatum* p. 241 Ecuador, *longum* p. 218, *posticemarginatum* p. 223, *leucostictum* p. 239 Costa Rica, *hydroporoides* p. 220, *stenosoma* p. 229, *sacivum* p. 230 Paraguay, *sharpi* Guatemala p. 223, *luteovestitum* p. 230, *simulator* p. 239, *nitidum* p. 253 Guiana, *fuscum* (with var. n. *majus*) Argentina p. 245, *impressipenne* locality unknown p. 253, *lampros* Mexico p. 254 spp. n.; *succinc-*

ium subsp. n. *uniforme* Colombia p. 239; *subapicale* Pic a var. of *abdominale* Pic nec *atricolle* Pic p. 214 (note); *laterufum* Pic a sp. p. 229 (note); *chevrolati* n. n. for *mexicanum* Chevr., Sharp nec Cast. p. 220 figs., MÉQUIGNON Ann. Soc. ent. Fr. 103.—*C. sublampros* p. 295, *parallelipenne*, *inumbatum* p. 296 Mexico, *modestum* Guatemala p. 297, *declive*, *horni* p. 298, *posticum* p. 299, *adstrictum* p. 300 Brazil spp. n., MÉQUIGNON Arb. morph. tax. Ent. Berl. 1.—*C.* discussion of some types pp. 171–174, *chevrolati* n. n. for *mexicanum* Chevr. nec Cast. p. 172; *falsum* n. n. for *undatum* Chevr. nec Cast. p. 173; *maculatum* sp. n. Cuba p. 54, MÉQUIGNON Bull. Soc. ent. Fr. 39.

Citharophorus subgen. n. see *Chelonarium*.

Dermestosoma subgen. n. see *Chelonarium*.

PARNIDAE (DRYOPIDAE).

Dryopidae of Japan, KÔNO Ins. mats. 8 p. 124–128.

Awadoronus gen. n. p. 127, *awanus* sp. n. Japan p. 128, KÔNO Ins. mats. 8.

Betelmis Mats. further description p. 124, KÔNO t.c.

Cylloepus spinipes Mexico p. 192, *barberi* Guatemala p. 193, spp. n., HINTON Rev. Ent. Rio de J. 4.

Dryops striatopunctatus var. n. *kouřilii* Bulgaria p. 43, ROUBAL Ent. Anz. 14.

Elsianus grandis p. 195, *scutellaris* p. 196, spp. n. Mexico, HINTON Rev. Ent. Rio de J. 4.

Grouvelleus marginatus sp. n. Japan p. 127, KÔNO Ins. mats. 8.

Helichus puncticollis in Arizona p. 72, HINTON Canad. Ent. 66.

Helmis immunis Fall (= *cryophilus* Musgr.); *solutus* Brown maculate f. of *concolor* Lec. p. 172, FALL Pan-Pacific Ent. 10.

Limnius tardellus Fall (= *subarcticus* Brown) p. 172, FALL t.c.—*L. mexicanus* p. 199, *ungulatus* p. 200, spp. n. Mexico, HINTON Rev. Ent. Rio de J. 4.

Psephenus palpalis ♀ p. 616; *usingeri* sp. n. Mexico p. 617 figs., HINTON Ann. ent. Soc. Amer. 27.

Simsonia purpurea Cart. (= *deane*. Cart. & Zeck.) p. 261, CARTER Proci Linn. Soc. N.S.W. 59.

Stenelmis flavovittatus sp. n. Japan p. 126, KÔNO Ins. mats. 8.—*S. puncticollis* sp. n. Mexico p. 198, HINTON Rev. Ent. Rio de J. 4.

Stenelsianus gen. n. p. 196, *rufulus* sp. n. Panama p. 197, HINTON t.c.

GEORYSSIDAE.

Georyssus overbecki sp. n. Java, Sumatra p. 198, van EMDEN Ent. Bl. 30.

HYDROPHILIDAE.

Berosus neumanni p. 28, *guilielmi* p. 29 further descriptions, d'ORCHY-MONT Bull. Soc. Sci. nat. Maroc 14.

Dactylosternum depressum, *abdominale* characters p. 263, a. subsp. n. *occidentalis* Africa p. 268, d'ORCHY-MONT Bull. Ann. Soc. ent. Belg. 74.

Helophorus synonymy of some Palaearctic and Nearctic spp. pp. 251–261, *guttulus* subsp. *brevipalpis* var. *gratus* n. n. for *griseus* var. *pusillus* Rey nec Motsch. p. 260, d'ORCHY-MONT t.c.

Hugoscottia gen. n. p. 89, KNISCH Ent. Anz. 2 1922.

Hydraena of Finland pp. 98–100, LINDBERG Notul. ent. 14.—*H.* Italian spp. pp. 158–170, *andreinii* p. 166, *alia* p. 168, spp. n. Italy figs., d'ORCHY-MONT Boll. Soc. ent. ital. 66.

Hydrochus angustatus subsp. n. *ramiroi* Lusitania p. 43, ROUBAL Misc. ent. 35.

Laccobius binotatus sp. n. China p. 109, d'ORCHY-MONT Peking n.H. Bull. 9.

Pelosoma mesosternalum sp. n. Mexico p. 246 fig., HINTON & ANCONA An. Inst. Biol. Mexico 5.

CYPHONIDAE (HELODIDAE).

Cyphon grande sp. n. Malay p. 563, PIC J. F.M.S. Mus. 17.—*C. maroccanus* sp. n. Morocco p. 17, PIC Echance 50.

Hydrocyphon sinicus sp. n. China p. 23, PIC t.c.

Macrocyphon pendleburyi sp. n. Malay p. 562, PIC J. F.M.S. Mus. 17.

DASCILLIDAE.

Anorus arizonicus sp. n. Arizona p. 323 fig., BLAISDELL Trans. Amer. ent. Soc. 60.

Aploglossa testaceipes Peru, *suturalis* Bolivia (with *varr. n. humeralis*, *diversipes*, *notaticollis* no locality), *spp. n. p. 18*, PIC MÉL. exot.-ent. 64.

Dascillus leopoldi sp. n. Malacca p. 3, PIC Bull. Mus. H.n. Belg. 9 1933 no. 35.—*D. rubropubens sp. n.* Malaya p. 562, PIC J. F.M.S. Mus. 17.

Ectopria multimaculata sp. n. Malay p. 564, PIC t.c.

Epilichas apicicornis sp. n. Malay p. 562, PIC t.c.

Eubrianax vittaticollis sp. n. Belgian Congo p. 386, PIC Ann. Mag. n.H. (10) 13.

Macroebria apicicornis p. 563, *impressicollis p. 564*, *spp. n.* Malay, PIC J. F.M.S. Mus. 17.

Macropogon piceus Lec. (= *dubius* Brown); *testaceipennis* Mots. (= *cribricollis* Brown) p. 172, FALL Pan-Pacific Ent. 10.

Ptilodactyla pendleburyi sp. n. Malay p. 563, PIC J. F.M.S. Mus. 17.—*P. caldwelli sp. n.* New Guinea p. 30, PIC MÉL. exot.-ent. 63.—*P. burgeoni sp. n.* Belgian Congo p. 394, PIC Rev. Zool. Bot. afr. 24.

RHIPICERIDAE (SANDALIDAE).

Callirhipis characters of and key to subgen. *Helleriola* pp. 421, 422, *helleriana* Mindanao p. 422, *henriksenii* Sumatra p. 424, *laticornis* Borneo p. 425, *spp. n.*, van EMDEN Philipp. J. Sci. 53.

Simianellus cerrutii status discussed p. 132, PIC Rev. franç. Ent. 1.

Simianides gen. n. p. 89, van EMDEN Ent. Bl. 20 1924 (see *Celudonia* Z.R. 68 1931 p. 196).

CIIDAE.

Cis boleti var. n. latior China p. 86, PIC Ent. Nachr. Bl. 8.—*C. giganteus sp. n.* China p. 15, PIC MÉL. exot.-ent. 63.

Ocotemnus dixiensis sp. n. Utah p. 47, TANNER Ann. ent. Soc. Amer. 27.

Xylographus rufipennis sp. n. Kenya p. 14, PIC MÉL. exot.-ent. 63.

BOSTRYCHIDAE.

Bostrychidae from Fr. Sudan, LESNE Bull. Soc. Sci. nat. Maroc 14 p. 22.

Bostrychophilus corticinus nom. nud. Brazil p. 197, HEYNE & TASCHENBERG Die exot. Käfer 1907.

Euderitae subfam. n. p. 392, LESNE Ann. Soc. ent. Fr. 103.

Euderia squamosa morphology pp. 389–393 fig., LESNE t.c.

Hendecatonus key, *lanatus sp. n.* Amur p. 174, LESNE Bull. Soc. ent. Fr. 39.

Lichenophanes egregius Peru p. 39, *tuberosus* Mexico p. 40, *spp. n.* figs., LESNE Rev. franç. Ent. 1.

Phonapate madecassa subsp. n. densoana Madagascar p. 42 figs., LESNE t.c.—*P. frontalis* morphology pp. 217–220, r. *moghrebica n. n.* for *uncinata* Lesne nec Karsch p. 218, LESNE Bull. Soc. ent. Fr. 39.

LYCTIDAE.

Lyctus spp. biology pp. 495–518 figs., PARKIN Ann. appl. Biol. 21.

ANOBIIDAE (ASPIDIOPHORIDAE).

Byrrhodes see *Fachus*.

Clada impressipennis sp. n. Malay p. 565, PIC J. F.M.S. Mus. 17.—*C. longicornis sp. n.* Kenya p. 15, PIC MÉL. exot.-ent. 63.

Ernobius americanus n. n. for *cupressi* van Dyke nec Chob. p. 140, PIC Bull. Soc. zool. Fr. 59.

Fachus n. n. for *Byrrhodes* Lec. nec Sharp pp. 152, 294, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Metholcus arcuaticollis sp. n. Kenya p. 15, PIC MÉL. exot.-ent. 63.

Platybregmus gen. n., canadensis sp. n. Canada p. 275, FISHER Canad. Ent. 66.

Xestobium rufovillosum life-history pp. 133–137. figs., KIMMINS Proc. S. Lond. ent. n.H. Soc. 1933–34.

Xyletinus argenteolineatus sp. n. Central America p. 19, PIC Echange 50.

Xystrophorus hirsutus sp. n. Malay p. 564, PIC J. F.M.S. Mus. 17.

PTINIDAE.

Niptus hololeucus morphology, distribution, biology pp. 93–129 figs., KOHLER Mitt. naturw. Ges. Winterthur 17–18 1930.

Ptinodes see *Wollastonella*.

Ptinus tectus in Norway pp. 72–76, BRINKMANN Naturen 58.

Wollastonella n. n. for *Ptinodes*
Woll. nec Lec. pp. 559, 684, LUCAS
Cat. alphabet. gen. subgen. Col. I
1920.

LYMEXYLONIDAE.

Atractocerus brevicornis larva p. 149
fig., GARDNER Bull. ent. Res. 25.

CLERIDAE.

Callimerus testaceonotatus var. n.
suturalis Tonkin p. 16, PIC MÉL.
exot.-ent. 64.

Cephaloclerus burgeoni, *brevenotatus*
p. 65, *metallicicollis*, *flavipes* p. 66,
spp. n. Kenya Congo, PIC Rev. Zool.
Bot. afr. 26.

Cymatodera neomexicana sp. n. N.
Mexico p. 9, KNULL Ent. News 45.

Emmepus bonnairei var. n. *nigro-*
apicalis Egypt p. 454, PIC Bull. Soc.
ent. Egypte 28.

Gyponyx tuberculatus, *burgeoni* p. 63,
multifasciatus p. 64, spp. n. Belgian
Congo, PIC Rev. Zool. Bot. afr. 26.—
G. signatus sp. n. Congo p. 16, PIC
Mél. exot.-ent. 64.

Isohydnocera curtippennis larva, larval
habits pp. 65-68, ŠABROSKY J. Kans.
ent. Soc. 7.

Loedelia n. n. for *Necrobioides* Gah.
nec Fairm. pp. 380, 432, LUCAS Cat.
alphabet. gen. subgen. Col. I 1920.

Necrobioides see *Loedelia*.

Opilo nodieri sp. n. Madagascar
p. 15, PIC MÉL. exot.-ent. 64.

Pelonium inaequale, *breveapicale*
spp. n. Tonkin p. 17, PIC t.c.

Prionodera see *Wolcottella*.

Prosymnus maculipennis p. 66,
burgeoni p. 67, spp. n. Belgian Congo,
PIC Rev. Zool. Bot. afr. 26.—*P.*
rustipennis sp. n. Transvaal p. 17, PIC
Mél. exot.-ent. 64.

Spermodenops Ab. to Drilidae p. 132,
PIC Rev. franç. Ent. 1.

Tenerus superbus sp. n. "Indes
mériionales" p. 16, PIC MÉL. exot.-
ent. 64.

Thanasimus anteapicalis sp. n. Belgian
Congo p. 64, PIC Rev. Zool. Bot. afr. 26.

Tillus bifasciatus var. n. *basalis*
Tonkin p. 16, PIC MÉL. exot.-ent. 64.

Wolcottella n. n. for *Prionodera* Wolc.
nec Er. pp. 535, 669, LUCAS Cat.
alphabet. gen. subgen. Col. I 1920.

MELYRIDAE.

Apalochrus cockerelli sp. n. Belgian
Congo p. 388, PIC Ann. Mag. n.H.
(10) 13.—*A. inaequalicollis*, *foveifrons*
spp. n. Kenya p. 280, PIC Rev. Zool.
Bot. afr. 24.

Attalus schoutedeni p. 279, *burgeoni*
p. 397, *trimaculatus* Belgian Congo
spp. n.; *agonai* ♂; *hamatifer* ♀
p. 398, PIC t.c.—*A. schatzmayri* sp. n.
Egypt p. 453, WITTMER Bull. Soc.
ent. Egypte 28.—*A. mackiei* S.
Rhodesia, *gedyei* E. Africa, spp. n.
p. 125, PIC Echange 50 hors-texte.—
A. chamaeleon (with var. n. *nigra*,
p. 303), *subaenescens* p. 304, *pallidior*
p. 305, *euphorbiae* p. 306 spp. n.;
tuberculatus var. n. *pallidipes* p. 308
Teneriffe 21 1921; *ariasi* p. 359,
pardoi p. 360, Melilla 33 1933; *mascul-*
iantennatus p. 394, *atlasicus*, *simplicis-*
simus p. 395 33 1934 N. Africa, spp. n.
de la ESCALERA Bol. Soc. esp. H.n.

Callotroglops atrithorax ♂ p. 451,
WITTMER Bull. Soc. ent. Egypte 28.

Cephalogonia mephistopheles p. 298,
satanas p. 300, spp. n. Teneriffe figs.,
de la ESCALERA Bol. Soc. esp. H.n.
21 1921.

Colotes curtippennis sp. n. E. Africa
p. 126, PIC Echange 50 hors-texte.

Symbolus wolcotti sp. n. Mexico p. 21,
HINTON Canad. Ent. 66.

Flabellattalus cockerelli sp. n. Cape
Province p. 389, PIC Ann. Mag. n.H.
(10) 13.

Hedybivus particularicornis p. 387,
ogilviei p. 388, spp. n. Cape Province,
PIC t.c.—*H. bimaculatus* var. n.
atrimembris S. Rhodesia p. 126, PIC
Echange 50 hors-texte.

Heterolaius gen. n. type *Laius*
inflaticornis Fairm. p. 179, CHAMPTON
Ann. Mag. n.H. (9) 6 1920.

Hoppingiana monticola sp. n. Br.
Columbia p. 151, BLAISDELL Canad.
Ent. 66.

Idgia griseolineata sp. n. E. Africa
p. 140, PIC Bull. Soc. zool. Fr. 59.

Laius inflaticornis see *Heterolaius*.

Lusingattalus denti sp. n. E. Africa
p. 126, PIC Echange 50 hors-texte.

Malachius sardous, *marginellus* distribution discussed pp. 40-42, SOKO-
XOWSKI Ent. Bl. 30.—*M. marginellus*
var. *pseudosardous* Recl. (= *m.* var.
angusti-marginalis Donis.) p. 19, DONIS-
THORPE Ent. mon. Mag. 70.

Melyris nigrocostata sp. n. Cape
Province p. 392, PIC Ann. Mag. n.H.
(10) 13.

Mixis somereni sp. n. Kenya p. 126,
PIC Echange 50 hors-texte.

Pseudocolotes nitidipennis sp. n.
Mombasa; *maynei* var. n. *innotaticollis*
Belgian Congo p. 399, PIC Rev. Zool.
Bot. afr. 24.—*P. binotaticollis* sp. n.
Cape Province p. 388, PIC Ann. Mag.
n.H. (10) 13.

Troglops alferianus, *rabinovitchi* spp. n.
Egypt p. 450, WITTMER Bull. Soc.
ent. Egypte 28.

DASYTIDAE.

Camptolegnum subgen. n. see *Divales*.

Dasytes reductipennis p. 389, *calvinianus*,
mackiei p. 390, spp. n. Cape
Province, PIC Ann. Mag. n.H. (10)
13.—*D. bicoloripes* sp. n. S. Africa
p. 127, PIC Echange 50 hors-texte.

Divales subgen. n. *Camptolegnum*
p. 9a [ii], SCHILSKY in KÜSTER Käfer
Europa's 30 1894.

Haplocnemus alternatus Peyer. (= *cribripennis* Pic 1922 nec 1921) p. 156,
PIC Bull. Soc. ent. Fr. 39.—*H.*
tangerianus var. n. *subacuminatus*
Morocco p. 21, PIC Echange 50.

Listrus vanduzeei sp. n. California
p. 317 fig., BLAISDELL Trans. Amer.
ent. Soc. 60.

Pagurodactylus ogilvei p. 390, *limbatus*
(with var. n. *trimaculatus*) Rhodesia,
congoensis Belgian Congo p. 391, spp. n.,
PIC Ann. Mag. n.H. (10) 13.

Semijulistus gen. n. type *Dasytes*
callosus Sols. p. 84, SCHILSKY in
KÜSTER Käfer Europa's 30 1894.

Trichochrous calcaratus sp. n. Cali-
fornia p. 142, FALL Canad. Ent. 66.

Vectura fulvescens sp. n. California
p. 71, key p. 73, BLAISDELL Pan-
Pacific Ent. 10.

TELEPHORIDAE (CANTHARIDAE).

Athemus astridae sp. n. Malacca p. 1,
PIC Bull. Mus. H.n. Belg. 9 1933
no. 35.

Cantharis bisulcaticeps sp. n. Cape
Province p. 387, PIC Ann. Mag. n.H.
(10) 13.—*C. aedemeroides*, *virideoliracea*
(with var. n. *ingeniculata*, *subaenei-*
pennis) S. Africa, *umtaliensis* Rhodesia
p. 125, *pendleburyi* Malaya p. 129,
spp. n., PIC Echange 50 hors-texte.

Chauliognathus multilineatus, *uni-*
notatus p. 131, *geniculatus*, *gracilipes*,
angustatus, *diversipes*, *tenuemarginatus*
Brazil, *lojaensis*, *metallicus* Ecuador
p. 132, *atritarsis* Paraguay, spp. n.;
flavipennis var. n. *schneideri*; *diaman-*
tinensis var. n. *mineirosus* Brazil
p. 131, PIC t.c.—*C. atrolineatus* sp. n.
Peru p. 82, PIC Bull. Soc. ent. Fr.
39.—*C. kouraensis*, *subannulicornis*,
annulicornis Guiana, *bisbinotatus* p. 32,
hahmeli Amazonas, *atritarsis* Brazil,
spp. n.; *plicaticollis* var. n. *nigro-*
marginatus Amazonas p. 33, PIC Mél.
exot.-ent. 63.

Daiphron micronotaticeps, *nigro-*
apicale (with var. n. *lineaticolle*)
atripenne (with var. n. *bipartitum*),
spp. n.; *polemoides* var. n. *fasciatum*,
minasense Brazil p. 130, PIC Echange
50 hors-texte.

Discodon atrocyanum var. n. *pallidi-*
corne Philippines p. 54, PIC Ent.
Anz. 14.

Fissocantharis gen. n. p. 27, PIC
Mél. exot.-ent. 33 1921.

Ichthyurus wittei Belgian Congo
p. 278, *luteoscutus* Tanganyika p. 396,
spp. n., PIC Rev. Zool. Bot. afr. 24.

Lycocerus hickeri sp. n. China p. 46,
PIC Ent. Anz. 14.

Malthesis impressus Brazil p. 129,
foresterei Fr. Guiana p. 130, spp. n.,
PIC Echange 50 hors-texte.

Malthinus torre-tassoi sp. n. Egypt
p. 449, PIC Bull. Soc. ent. Egypte 28.—
M. sauteri sp. n. Formosa p. 46, PIC
Ent. Anz. 14.

Malthodes canariensis sp. n. Teneriffe
p. 297 fig., de la ESCALERA Bol. Soc.
esp. H.n. 21 1921.—*M. burgeoni*
p. 279, *singularicornis* p. 395, spp. n.
Belgian Congo, PIC Rev. Zool. Bot.
afr. 24.—*M. subcarinatus* var. n.
subrobustus Malay Arch. p. 129, PIC
Echange 50 hors-texte.

Maronius minasensis sp. n. Brazil
p. 130, PIC t.c.

Microcarphurus latifasciatus sp. n.
Malay Arch. p. 129, PIC t.c.

Podabrus alpinus mocquersyi rare
in France p. 71, HOUIN Bull. Soc.
Sci. nat. Elbeuf 51 1933.

Silesinus testaceicornis sp. n. Malacca
p. 2, PIC Bull. Mus. H.n. Belg. 9 1933
no. 35.

Silidius mackiei sp. n. Belgian Congo
p. 386, PIC Ann. Mag. n.H. (10) 13.—
S. subobliteratus Mombasa p. 397,
wittei p. 277, *atrosuturalis* p. 278,
infratestaceus p. 396, spp. n.; *compressi-*
cornis var. n. *inapicipennis* p. 278
Belgian Congo, PIC Rev. Zool. Bot.
afr. 24.—*S. brevenotatus*, *costatus* p. 31
(with var. n. *reductus* p. 32) spp. n.;
dilaticornis var. n. *latenotatus*, *collarti*,
nigricornis p. 31 Congo, PIC Mél.
exot.-ent. 63.

Silis metallicipennis (with var. n.
immaculaticollis) p. 130, *lojaensis*
Ecuador, *minasensis*, *dilatatipennis*
Brazil p. 131, spp. n., PIC Echange
50 hors-texte.

Themus mediofasciatus sp. n. China
p. 129, PIC Echange 50.—*T. hickeri*
sp. n. Formosa; *subviridipennis* var. n.
nonfriedi Himalaya p. 54, PIC Ent.
Anz. 14.

Tylocerus brevebasalis Colombia, *bata-*
vianus Java, spp. n. p. 47, PIC t.c.

LYCIDAE.

Adoceta turneri sp. n. E. Africa p. 127,
PIC Echange 50 hors-texte.

Calleros subfasciatus (with var. n.
kraatzii), *unifasciatus* Peru, *maculatipes*
Bolivia, spp. n.; *bogotensis* var. n.
grandescapularis Peru; *brasiliensis*
var. n. *curtebilineatus* Brazil p. 128,
PIC t.c.—*C. subreductus* S. America,
costaricensis Costa Rica p. 33, *longe-*
lineatus p. 34, *armitagei* p. 35 Brazil,
donckieri p. 34, *brunneolineatus* p. 35,
claveri p. 36 Colombia, *clermonti*,
reductenotatus p. 34, *scapularis* Peru,
germaini p. 35, *latevittatus* Bolivia,
atrimembris Honduras p. 36, spp. n.,
PIC Mél. exot.-ent. 63.

Calopteron breveaurantiacum sp. n.
Colombia p. 45, PIC Ent. Anz. 14.

Lycus prolongatus sp. n. Kamerun
p. 45, PIC t.c.

Plateros californicus Van Dyke (= *columbiensis* Brown) p. 171, FALL
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sp. n. Australia p. 117 figs., KLEINE
Mitt. schweiz. ent. Ges. 16.

Trichalus sulcatiformis sp. n.
Australia p. 116 figs., KLEINE t.c.

LAMPYRIDAE (PHENGODIDAE).

Aspisoma inangulata Costa Rica
p. 35, *elongata*, *boliviensis* Bolivia,
holtzi Paraguay p. 36, spp. n., PIC
Mél. exot.-ent. 64.

Curtos atripennis sp. n. Malay Arch.
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Africa, spp. n. p. 127, PIC Echange
50 hors-texte.—*L. grandjeani* var. n.
infrapallida Portuguese E. Africa p. 46,
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CEROPHYTIDAE).

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Aeoloderma soudana, *fulviceps* spp. n. Fr. Sudan p. 23, FLEUTIAUX Bull. Soc. Sci. nat. Maroc 14.—*A. seyrigi* sp. n. Madagascar p. 181 fig., FLEUTIAUX Bull. Soc. ent. Fr. 39.

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Dorygonus intermedius, *propinquus* p. 63, *vicinus*, *nitidissimus* p. 64, *viridipennis* p. 65, spp. n. Madagascar, FLEUTIAUX Bull. Soc. zool. Fr. 59.

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Esthesopus flavidus Fall from *Horistonotus* p. 22; *indistinctus* sp. n. California p. 23, FALL t.c.

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vigintiquinquepunctata, *théryi*, *dodecasticta*, *communis*, *táborskýi*, *dioclosticta*, *analoga*, *batnensis*, *teniétensis* p. 210, *baumi*, *djurdjurae* p. 211 N. Africa, *marani* S. France p. 210; *quadrifasciata* *abb. n. amismina*, *tangeriensis* Morocco, *embrikiella*, *corsa* Corsica p. 215; *undulata* *ab. n. suboculata* Persia p. 216; *saxicola* *ab. n. intemerata* Smyrna p. 217; *crinita* subsp. n. *perrinella* Cyprus p. 220; *taeniata* subsp. n. *veselyi* Daghestan p. 229; *glasunovi* var. n. *repetekensis* Turkestan p. 234; *mimonti* var. n. *pomposa* Poltava, *boieldieu* Caucasus p. 236; *discoidea* var. n. *argyrochaeta* N. Africa, *siciliana* Sicily, *diplagosa* Syracuse, *ferghanensis* Fergana p. 245; *caspica* var. n. *simiola* Askabad p. 246; *pygmaea* var. n. *carthaginensis* Tunis p. 248, *eumicra* Morocco p. 249; *fulvinaeva* var. n. *kamberskyi* Araxestal p. 250; *adpersula* var. n. *antennosa* Algeria p. 251; *levrati* var. n. *iberica* Portugal p. 256; *simillima* *ab. n. strandinella* Kairouan p. 258; *hellenica* var. n. *ianthelytra* Greece p. 264; *leonhardi* var. n. *punica* Tunis p. 272; *lugens* var. n. *menétrisi*, *karelini* Caucasus, *libanonica* Syria p. 274; *vaulogeri* subsp. n. *muscula* Algeria p. 277; *boryi* *abb. n. iridescens* Syria, *usta* Mediterranean, *anomala* Greece; *judaeorum* var. n. *hebraea* Nazareth p. 287; *cyaniventris* var. n. *berytensis* Syria p. 289, OBENBERGER *Folia zool. hydrobiol.* 5.—*A. bipunctata* *ab. n. anticebimaculata* France p. 129, SCHAEFER Bull. Soc. linn. Lyon (N.S.) 3.—*A. nigrovittata* p. 61, *varipilis* p. 62, *vanduzeei* p. 64, spp. n. U.S.A., VAN DYKE Ent. News 45.

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Chrysoschroa buqueti discussion of rr. pp. 132-135, *b. var. n. biguttata* Nepal p. 135, *b. rugicollis var. n. trimaculata* Quang-Tri p. 134; *nigrovittata* sp. n. Borneo p. 135, THÉRY Bull. Ann. Soc. ent. Belg. 74.—*C. fulgidissima* larva p. 80 fig., SASAKI Insect Wld. 38.

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Cisseis aurocyanea, browni p. 258, *heroni* p. 259, *myallae, nitidiventris* p. 260, spp. n. Australia, CARTER Proc. Linn. Soc. N.S.W. 59.

Coræbus undatus morphology, biology pp. 479-497, NONELL COMAS Mem. R. Acad. Barcelona (3) 23.

Curis aurifera subsp. n. *nicolayi* S. Australia p. 141, THÉRY Bull. Ann. Soc. ent. Belg. 74.

Cylindromorphoides (*Eurynodes* subgen. n.) *cristata* sp. n. Brazil p. 5 fig., THÉRY Rev. Ent. Rio de J. 4.

Demochroa gratiosa subsp. n. *curticollis* Java p. 132, THÉRY Bull. Ann. Soc. ent. Belg. 74.

Deyrollius (*Eucorydon* subgen. n. p. 3) *mnizechi* sp. n. Brazil p. 4, THÉRY Rev. Ent. Rio de J. 4.

Diadoxus erythrurus var. n. *septentrionalis* Queensland p. 252, CARTER Proc. Linn. Soc. N.S.W. 59.

Dicerca tenebrica Kby. (= *prolongata* Lec.) p. 90; *sexualis* Cr. (= *californica* Cr.) *mutica* Lec. discussed p. 91, VAN DYKE Ent. News 45.

Epidelus ceramensis sp. n. Ceram p. 137, THÉRY Bull. Ann. Soc. ent. Belg. 74.

Ethon roei var. n. *obscurum* Australia p. 261, CARTER Proc. Linn. Soc. N.S.W. 59.

Eucorydon subgen. n. see *Deyrollius*.

Eurynodes subgen. n. see *Cylindromorphoides*.

Helleria gen. n. for *Iridotaenia wahnesi* Hell. p. 138, THÉRY Bull. Ann. Soc. ent. Belg. 74.

Hylaeogena growvellei sp. n. Mexico p. 149, THÉRY t.c.

Hyperantha hoscheeki sp. n. Brazil p. 1 fig., THÉRY Rev. Ent. Rio de J. 4.

Iridotaenia wahnesi see *Helleria*.

Judolia longipes var. *reducta* abb. n. *cordigera, strandi, externebidivisa* p. 309; *l. var. cruciata* abb. n. *paraconjuncta, cruciatolateralis, bicrucata, parabicrucata, bicruciatolateralis* p. 310; *l. var. fasciata* abb. n. *externedisjuncta, externedivisa, anticeconnexa*; *l. var. subfasciata* abb. n. *subfasciata* p. 311, *transversemaculata, lunulata*; *l. var. guttulata* abb. n. *subguttulata* p. 312, *epipleuralis, paraepipleuralis, anticeoctoguttata, lateroguttata, parunguttata* p. 313, *posticeguttata, anticesexguttata, anticequadriguttata, quadriguttata, zaitevi, subhumeralis, praescutellaris, strandiana* p. 314 Siberia figs., PLAVILSTSHIKOV Folia zool. hydrobiol. 5.

Julodis revision of Palaearctic spp. pp. 162-188, *onopordi* catalogue of rr. pp. 168, 182, o. o. abb. n. *sagrensis, schrammi* Spain p. 169, *rugatula* p. 170; o. *marseuli* ab. n. *epitricha* p. 172 Algeria; o. *splichali* abb. n. *eulasiola, strandiella* Tunis p. 173; o. *algirica* var. n. *maroccana* Morocco p. 174; o. *fidelissima* ab. n. *macrotricha* N. Africa p. 175; *peregrina* var. n. *pharao* Egypt p. 185; *beesoni* sp. n. Mesopotamia p. 186; *speculifera* subsp. n. *philistina* Syria, Palestine; *distincta* subsp. n. *balthasari* Palmyra p. 187, OBENBERGER Folia zool. hydrobiol. 5.

Mastogenius subcyaneus subsp. n. *crenulatus* U.S.A. p. 334, KNULL Ohio J. Sci. 34.

Megactenodes key p. 241, *mocquerysi* Gabun p. 244, *captiosa* Belgian Congo p. 247 spp. n.; *ebenina* var. n. *ahenea* S. Africa p. 248; *westermanni* var. n. *splendidiventris* Africa p. 245 figs., THÉRY Bull. Soc. Sci. nat. Maroc 13.—*M. rudis* see *Paractenodes*.

Melanophila henoni var. n. *reymondi* Dsongarie p. 318, THÉRY Bull. Soc. ent. Fr. 38.

Melobasis radiola sp. n. Queensland p. 252, CARTER Proc. Linn. Soc. N.S.W. 59.

Pagdenia gen. n. p. 236, *plasoni* (type) New Guinea, *nigroviolacea* Solomon Is., spp. n. p. 238, THÉRY Bull. Soc. ent. Fr. 39.

Paractenodes gen. n. for *Megactenodes rudis* Kerr. p. 239 fig., THÉRY Bull. Soc. Sci. nat. Maroc 13.

Paracupta leveri sp. n. Solomons p. 138, THÉRY Bull. Ann. Soc. ent. Belg. 74.

Paratyndaris suturalis sp. n. Florida p. 193, FALL Ent. News 45.

Polycetes hauseri, strandi spp. n. China p. 189; *rhois* ab. n. violacea Greece, Syria; key to Palaearctic spp. p. 190, OBERBERGER Folia zool. hydrobiol. 5.

Pseudocastalia semenowi sp. n. Tashkent p. 188, OBERBERGER t.c.

Pygichaeta parisii sp. n. Somaliland p. 52, OBERBERGER Atti Soc. ital. Sci. nat. 73.

Sphaerobothris subgen. n. see *Chrysobothris*.

Sphenoptera cupreosplendens larva, pupa p. 416 figs., HESSE Ann. S. Afr. Mus. 30.

Sternocera boucardi subsp. n. zammeranoi Somaliland p. 50, OBERBERGER Atti Soc. ital. Sci. nat. 73.

Stigmodera criticism of Oberberger's classification pp. 551-554, CARTER Ann. Mag. n.H. (10) 14.—*S. broomensis, eborica* p. 253, *laevinotata* p. 254, *pratensis, insculpta* p. 255, *rudis* p. 256 spp. n.; *erythroptera* subsp. n. *nigroterminata* p. 257 Australia & Tasmania figs., CARTER Proc. Linn. Soc. N.S.W. 59.

Torresita cuprifera var. n. *limbata* Australia p. 258, CARTER t.c.

Trachys bodenheimeri Palestine p. 85, *ornata* Japan p. 86, spp. n., THÉRY Bull. Soc. ent. Fr. 39.—*T. minutus, fragariae* mining habits p. 115, MANEVAL Misc. ent. 35.—*T. breiti* Siberia p. 29, *ronino* Japan p. 30, *protracticollis* p. 32, *jô* p. 41, *ine, juno* p. 42 Bengal, *vavrai* p. 37, *vicarians* p. 38, *tristicula, sordidula* p. 39, *helpferi* p. 41, *suspectatrix* p. 43, *obesula* p. 44 E. India, *dichroa* Italy, (with var. n. *tangerica*) p. 51, *perparva* p. 47 Morocco, *ebeniptera* Syria p. 52, *indigoptera* Spain p. 54, *utschderensis* p. 56, (with var. n. *amethystiptera* p. 57), *arazicola* p. 58 Caucasasia, *problematica* Germany p. 60, spp. n.; *minuta* larva p. 45 (with subsp. n. *reflexiformis* Italy, abb. n. *poecilochroa, bohémica* Bohemia, *heyrovskyyi* Carniola p. 46, *infernalis* Moravia p. 47); *puncticollis* varr. n. *obscurella* Bosnia, *punctatella* Germany p. 49; *troglydites* ab. n. *klimschii*,

var. n. *carinthiaca* Carinthia p. 50; *pygmaea* abb. n. *viridana* Croatia, *ausonica, aureolata*, var. n. *troglydyti-formis* S. Italy p. 54; *turanica* var. n. *lactior* Turkestan p. 56; *quercicola* abb. n. *troglydytina, chlorizans* France, *satanella* Spain p. 58; *major* var. n. *alpina* Carinthia, subsp. n. *cretica* Crete p. 60; *pumila* var. n. *balcanica* Bulgaria p. 61; *fragariae* subsp. n. *laevipennis* Bohemia p. 62 figs., OBERBERGER Arch. Naturgesch. 82 1918 A 11.

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Adeps see *Adepsion*.

Adepsion n. n. for *Adeps* Gist. 1857 nec 1848 p. 90, STRAND Arch. Naturgesch. 82 1917 A5.

Adesmia bicarinata subsp. n. *glabrior* Sinai p. 23, SCHATZMAYR & KOCH Bull. Soc. ent. Egypte 18.

Akis rotundicollis p. 301, *pachecoi* p. 303, *antoinei* p. 306, *lozano* p. 307, *susica* (with var. n. *longipennis*) p. 309, spp. n. Morocco, etc., key p. 305 figs., DE LA ESCALERA Eos 9.

Alphitophagus bifasciatus subsp. *judaicus* Roub. correct name for subsp. described in 1929 as *Alphitobius quadripustulatus judaeus* p. 51, ROUBAL Ent. NachrBl. 8.

Amarygmus morio F. (= *inornatus* Macl.) p. 265, CARTER Proc. Linn. Soc. N.S.W. 59.

Anaedus striatipennis p. 17, *metallicus* Argentina, *notatipennis* Brazil p. 18 63 spp. n.; *mrazi* n. n. for *striatus* Pic nec Geb. p. 35 64, PIC Mél. exot.-ent.

Androsus cyanescens sp. n. China p. 85, PIC Ent. NachrBl. 8.

Apasis distortipes sp. n. Australia p. 264, CARTER Proc. Linn. Soc. N.S.W. 59.

Apsena barbarae characters p. 110, BLAISDELL Pan-Pacific Ent. 10.

Asida timida p. 350, *breuili* p. 352, *acuticollis* p. 355, *amplicollis* p. 356, *planidorsis* p. 357, *akisoides* p. 358 (*Pseudoplanasida* subgen. n. p. 360), *lindaraja* p. 361, *moraima* p. 362, *minima* p. 363 Spain, *rufa* p. 351, *curvicollis* p. 353, *inquinatoides* p. 356 Portugal (*Granulasida* subgen. n. p. 427), *granatensis* p. 428, *pseudosetipennis*, *fallax* (with var. n. *granularis*) p. 451, *valentina* p. 432, *salinosa*, *murciana* p. 435, *oertzeni*, *laufferi* p. 434, *moroderi* p. 435, *alcoyana*, *paludosa* p. 436, *zoraida*, *zaida* p. 437 spp. n.; *brucki* varr. n. *garruchensis*, *aproximata* p. 429, *larrinuae*, *nuda* p. 430 Spain, DE LA ESCALERA Bol. Soc. esp. H.n. 21 1921.

Auchmobius characters p. 227, key p. 232, *subovalis* p. 238, *slevini* p. 243, *parvicollis* p. 246, *angelicus* p. 249, *picipes* p. 252, *subboreus* p. 254, *sanfordi* p. 257, spp. n. U.S.A. figs., BLAISDELL Trans. Amer. ent. Soc. 60.

Aulonoscelsis see *Platyscelis*.

Blaps caraboides subsp. *schusteri* n. n. for *caraboides ovata* Rein. nec Sol. p. 162, REINIG Dtsch. ent. Z. 1933.

Camaria mirabilis, *nitidissima* p. 31, *janeirensis* Brazil, *subconvexa* Colombia, spp. n.; *semistriata* var. n. *mafraensis* Brazil p. 32, PIC MÉL. exot.-ent. 64.

Cerocamptus distinctestriatus sp. n. Tonkin (with var. n. *saigonensis* Saigon) p. 31, PIC t.c.

Ceropria reitteri sp. n. China p. 85, PIC Ent. NachrBl. 8.

Cestrinus subcostatus Cart. (= *carbo* Cart.) from *Gonocephalum* p. 266, CARTER Proc. Linn. Soc. N.S.W. 59.

Chariotheca sinensis sp. n. China p. 33, PIC MÉL. exot.-ent. 64.—*C. angulatipes*, *delatensis*, *hanoiensis* see *Pseudochariotheca*.

Corticeus P. & M. (= *Hypophloeus* F.) p. 187, *strublei* sp. n. California p. 188, technique of orientation p. 190, BLAISDELL Ent. News 45.

Crypticus minutissimus sp. n. Spain p. 211 figs., DE LA ESCALERA Bol. Soc. esp. H.n. 34.—*C. arandai* subsp. n. *faucium* Morocco p. 229, ANTOINE Bull. Soc. Sci. nat. Maroc 13.

Cyphonotus see *Schlinkus*.

Daedrosis rufipes sp. n. Australia p. 264, CARTER Proc. Linn. Soc. N.S.W. 59.

Derosphaerus subnotatus var. n. *diversicollis* Gabun p. 36, PIC MÉL. exot.-ent. 64.

Earophila see *Earophilina*.

Earophilina n. n. for *Earophila* Semen. nec Gumpbg. p. 99, STRAND Arch. Naturgesch. 82 1917 A5.

Elongasida inesperata p. 117, *granosa* p. 118, spp. n. Spain, DE LA ESCALERA Bol. Soc. esp. H.n. 21 1921.

Erodium freyi sp. n. p. 181 (with subsp. n. *subpuncticollis* p. 182) Palestine, SCHUSTER Ent. Bl. 30.

Falsotithassa gen. n. p. 18, *sumatrana* sp. n. Sumatra p. 19, PIC MÉL. exot.-ent. 63.

Falsoxanthalia gen. n., *bicoloripes* sp. n. China p. 84, PIC Ent. NachrBl. 8.

Globasida monchiquensis p. 118, *barrosi* p. 119, spp. n. Spain, DE LA ESCALERA Bol. Soc. esp. H.n. 21 1921.

Gonocephalum subcostatum see *Cestrinus*.

Granulasida subgen. n. see *Asida*.

Gymnetasida louati p. 198, *flens* p. 200, *primoti* p. 204, *scobina* p. 206, *semiresecta* p. 208, *riffensis* p. 210, *cerebellum* p. 211 (with subsp. n. *gundafica* p. 213) spp. n.; *azruensis* subsp. n. *mirtensis*; *timaditensis* subsp. n. *hebrimensis* p. 202 13; *alluaudi* subsp. n. *maritima* p. 117; *anna-mariae* p. 118, *kocheri* p. 120 spp. n. Morocco 14, ANTOINE Bull. Soc. Sci. nat. Maroc.

Helops secedens sp. n. Morocco p. 230, ANTOINE op. cit. 13.

Hemicera purpureopunctata p. 17, *viridifasciata* p. 33, spp. n. Tonkin, PIC MÉL. exot.-ent. 63.

Homoeogenus see *Krollus*.

Hoplarion kocheri sp. n. Morocco p. 122 figs., ANTOINE Bull. Soc. Sci. nat. Maroc 14.

Hypaulax undulatioestis sp. n. Australia p. 263, CARTER Proc. Linn. Soc. N.S.W. 59.

Hypophloeus see *Corticeus*.

Krollus n. n. for *Homoeogenus* Waterh. 1882 nec 1880 pp. 333, 357, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Leiochrodes nigronotatus sp. n. China
p. 84, PIC Ent. NachrBl. 8.

Leprocaulus reitteri sp. n. China p. 84,
PIC t.c.

Licinoma puteolata sp. n. Australia
p. 265, CARTER Proc. Linn. Soc. N.S.W.
59.

Loensus n. n. for *Pedinopsis* Geb. nec
Raffr. pp. 380, 489, LUCAS Cat. alphabet.
gen. subgen. Col. I 1920.

Lypros metallicus sp. n. Tonkin p.
19, PIC Mél. exot.-ent. 63.

Machlasida singularis Reitt. a sp.
p. 197 13; *surcoufi* p. 106, *nitidicosta*
p. 114, *gattefossei* p. 115, *corvus* p. 117
spp. n.; *antoinei* subsp. n. *bremondi*
p. 108; *zemensis* subsp. n. *meskina*
p. 109, *ab. n. inversa* p. 113 Morocco
14 figs., ANTOINE Bull. Soc. Sci. nat.
Maroc.

Mesostenopa habessinica subsp. n.
sinaitica Sinai; key to Egyptian spp.
p. 17, SCHATZMAYR & KOCH Bull.
Soc. ent. Egypte 18.

Micipsa princeps sp. n. Tibesti
p. 106 fig., de PEYERIMHOFF Rev.
franç. Ent. 1.

Microstus theryi p. 227, *hebes* p. 228,
spp. n. Morocco, ANTOINE Bull. Soc.
Sci. nat. Maroc 13.

Microtelus torre-tassoï sp. n. Egypt
etc. p. 24, SCHATZMAYR & KOCH Bull.
Soc. ent. Egypte 18.

Onosterrhus costatus p. 262, *robertus*
p. 263, spp. n. Australia, CARTER Proc.
Linn. Soc. N.S.W. 59.

Orcopagia angustata sp. n. New
Britain p. 261, CARTER t.c.

Pachychila gattefossei p. 220, *fallaciosa*
p. 221 spp. n.; *grandis* subspp. n.
gravida p. 223 13, *kocheri* p. 106;
symytae sp. n. p. 104 14 Morocco,
ANTOINE Bull. Soc. Sci. nat. Maroc.

Pachyscelodes lyauteyi subsp. n.
kocheri Morocco p. 122, ANTOINE op.
cit. 14.

Paratenetus testaceipes Bolivia,
humeralis, *corumbanus* p. 34, *atricolor*,
ensellatus p. 35 Brazil, spp. n., PIC
Mél. exot.-ent. 64.

Pedarasida gregoirei sp. n. Morocco
p. 213, ANTOINE Bull. Soc. Sci. nat.
Maroc 13.

Pedinopsis see *Loensus*.

Pellasisda favieri subsp. n. *confluens*
Morocco p. 195, ANTOINE Bull. Soc.
Sci. nat. Maroc 13.

Phloeodes secondary sexual characters
p. 110, BLAISDELL Pan-Pacific Ent. 10.

Phylacoprosodes (subgen.) n. n. see
Platyscelis.

Pimelia tatae sp. n. Moroccan Sahara
p. 47 fig., THÉRY Bull. Soc. Sci. nat.
Maroc 14.—*P. angulata* subsp. n.
sinaitica Sinai; *canescens* subsp. n.
arabicola Egypt p. 26, SCHATZMAYR
& KOCH Bull. Soc. ent. Egypte 18.—
P. oblonga subsp. n. *laevigata* Morocco
p. 21 fig., SCHUSTER Comment. biol.
4 no. 5.

Platyscelis confusa n. n. for *hauseri*
Reitt. 1899 nec 1895; subgen. *Phyla-*
coprosodes n. n. for *Aulonoscelsis* 1909
nec 1896, SCHUSTER Kol. Rdseh. 20.

Plesiophthalmus rufescens Tonkin,
subnitidipennis Yunnan, spp. n. p. 17,
PIC Mél. exot.-ent. 63.

Pseudochariotheca gen. n., *minutissima*
Tonkin (type) p. 32, *major* China
p. 33, spp. n.; *angulatipes* Pic,
dalatensis Pic, *hanoiensis* Pic from
Chariotheca p. 32, PIC op. cit. 64.

Pseudoplanasida subgen. n. see *Asida*.

Pterohelaeus cellulosus sp. n. Australia
p. 262, CARTER Proc. Linn. Soc. N.S.W.
59.

Schlinkus n. n. for *Cyphonotus* Guér.
nec Fisch. pp. 220, 584, LUCAS Cat.
alphabet. gen. subgen. Col. I 1920.

Schweinfurthia gen. n., *sinaitica*
sp. n. Sinai p. 27 fig., ANDRES Ent.Bl.
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Egypte 18.

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Naturgesch. Ins. Dtschl. Abt. I Bd.
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p. 101, SHESTOPEROV Rep. Sta. Plant
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p. 225, ANTOINE Bull. Soc. Sci. nat.
Maroc 13.—*S. lindbergi* sp. n. Morocco
p. 16 fig., SCHUSTER Comment. biol.
4 no. 5.

Tentyriina schusteri sp. n. Egypt
p. 24, SCHATZMAYR & KOCH Bull.
Soc. ent. Egypte 18.

Thalpobia gracilitarsis sp. n. Morocco p. 224, ANTOINE Bull. Soc. Sci. nat. Maroc 13.

Thraustoculus priesneri sp. n. Egypt p. 95, KOCH Bull. Soc. ent. Egypte 18.

Tithassa impressa sp. n. Brazil p. 19, PIC MÉL. exot.-ent. 63.

Toxicum javanibia n. n. for *bicorne* Gist. nec Sturm p. 90, STRAND Arch. Naturgesch. 82 1917 A5.

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Zophosis aerifer sp. n. Morocco p. 218 fig., ANTOINE Bull. Soc. Sci. nat. Maroc 13.

CISTELIDAE (ALLECULIDAE).

Allecula filum Java p. 12, *tortipes* Sumatra p. 13, spp. n., BORCHMANN Tijdschr. Ent. 77.—*A. subbinotata* sp. n. China; *borchmanni* n. n. for *villosa* Borch. nec Pic; *binominata* n. n. for *fortipes* Borch. nec Er. p. 23, PIC Echänge 50.—*A. subopacipennis* p. 25, *luteipennis* p. 26, *multiimpressa* p. 27, *viridescens* p. 28 Tonkin, *subfusiformis* p. 25, *vicina* p. 26, *hirtipennis*, *mediocris* Cochin China (with var. n. *saigonensis* Saigon) p. 27, *luteimembris* Pondicherry, *guerryi* Yunnan p. 26, *submetallica* Annam, *multipunctata* Indo China p. 28, spp. n., PIC MÉL. exot.-ent. 64.

Borboresthes tibetanus Tibet, *submetallicus*, *sanensis* p. 20, *major*, *rufosuturalis*, *tsinensis* p. 21, *subapicalis*, *hovaetyliformis* p. 22 China (with var. n. *lemoulti* no locality) p. 23, *bertrandi* Himalaya p. 20, *formosensis* Formosa, *longior* p. 21, *sparsepunctatus* p. 22, *grandis* p. 23, Tonkin, spp. n., PIC t.c.—*B. fouqueti* sp. n. Tonkin p. 82, PIC Bull. Soc. ent. Fr. 39.

Cistelomorpha quadrinotata p. 14, *basalis* p. 15, *inusitatis* p. 16, spp. n. Java, BORCHMANN Tijdschr. Ent. 77.—*C. handschini* p. 112, *floresana* p. 113, *sobrinula* p. 114, spp. n. Dutch E. Indies, BORCHMANN Mitt. schweiz. ent. Ges. 16.

Cistelopsis semiobscura, *obscuricolor* spp. n. Tonkin p. 23, PIC MÉL. exot.-ent. 64.

Isomira piceovittata Pondicherry, *minuta*, *sinensis* China, *laosensis* Laos, spp. n. p. 24, PIC t.c.

Mycetochara melandryina sp. n. Czechoslovakia p. 35, ROUBAL Ent. Bl. 30.—*M. metallica* sp. n. China p. 22, PIC Echänge 50.

Mycetocharina bipartita sp. n. Tonkin p. 24, PIC MÉL. exot.-ent. 64.

Nocar funereus sp. n. Australia p. 266, CARTER Proc. Linn. Soc. N.S.W. 59.

Pseudocistela watanabei sp. n. Sachalin p. 37, KÔNO Ins. mats. 9.

LAGRIIDAE.

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Acritolagria gen. n. for *Lagria amplicollis* Borchm. & others p. 98; *bogosensis* (type) Eritrea p. 99, *soror* Togo p. 100 spp. n., BORCHMANN Arch. Naturgesch. 81 1916 A6.

Adynata exilis p. 52, *apicicornis* p. 53 Span. Guinea, *convexa* Abyssinia p. 52, *pachycera* Kamerun p. 53, *cavicornis* p. 54, *crinita* Portuguese Guinea, *cochliophora* Eritrea p. 55, *forcicollis* Uganda p. 57, spp. n., BORCHMANN t.c.

Alagria n. n. for *Lagriostira* Kolbe nec Fairm. p. 183, BORCHMANN t.c.

Allocera gen. n. for *Lagria subaenea* Borchm. & others p. 175, *pachycera* p. 176, *crassicornis*, *cavicornis* p. 179, *minuta*, *excisa* p. 180, *dilucida* p. 181 Spanish Guinea, *cognata* Kamerun p. 177, *langei* Tanganyika p. 178, spp. n., BORCHMANN t.c.

Allogria gen. n. for *Lagria segnis* Fähr. p. 100; *spinosa* sp. n. (type) E. Africa p. 101, BORCHMANN t.c.

Arthromacra sikkimensis Sikkim p. 132, *gracilis* p. 133, *femoralis* p. 135 Fokien, spp. n., BORCHMANN t.c.

Auristira gen. n. p. 129, *octocostata* E. India, *grossepunctata* Burma, spp. n. p. 130, BORCHMANN t.c.

Bothrichara gen. n. for *Lagria pulchella* Guér. & others p. 104; *aurofasciata* p. 105, *papuaana*, *simplex* (with var. n. *assimilis*) p. 106, *helleri*, *modesta* p. 107, spp. n. New Guinea, BORCHMANN t.c.

Bothynogria gen. n. p. 128, *calcarata* sp. n. China p. 129, BORCHMANN t.c.

Calogria gen. n. p. 107, *costata* sp. n. New Guinea p. 108, BORCHMANN t.c.

Casonideia verticalis New Guinea p. 10, *finitima* Sumatra, *kolleri* Java p. 11, spp. n., BORCHMANN Tijdschr. Ent. 77.

Ceratoma gen. n. no species p. 49, BORCHMANN Arch. Naturgesch. 81 1916 A6.

Cerogria maculigera p. 113, *rubripennis* p. 114 Borneo, *brunneipennis*, *deserta* Java p. 116, *asperana* Kamerun p. 118, *celebensis* Celebes p. 119, *pilosa* Nilgiri Hills p. 120, spp. n., BORCHMANN t.c.—*C. hemichlora* var. n. *divisa* Java p. 8, BORCHMANN Tijdschr. Ent. 77.—*C. major* sp. n. Tonkin p. 20, Pic Mél. exot.-ent. 63.—*C. sarasini* sp. n. Celebes p. 111, BORCHMANN Mitt. schweiz. ent. Ges. 16.

Chrysolagria heynei p. 144, *laticornis*, *rohdei* p. 145, *forticornis*, *nodicornis* p. 150 Kamerun, *clavicornis* Natal p. 145, *gabonensis* p. 146, *femoralis* p. 151 Gabun, *suturata* p. 147, *divisa*, *kwiroensis* p. 148, *madibirensis* p. 149, *mucronata* p. 153, *similis* p. 154, *purpurascens* p. 155, *aruschensis*, *cognata* p. 156, *semiflava* E. Africa p. 147, *schoana* p. 151, *denticulata* p. 154 Abyssinia, *globosa* Congo p. 152, *ugandica* Uganda p. 153, spp. n., BORCHMANN Arch. Naturgesch. 81 1916 A6.

Ctenogria gen. n. p. 101, *vermiculata* (type), *segregis* p. 102, *madurensis* p. 103, spp. n. S. India, BORCHMANN t.c.

Derolagria subgen. n. see *Lagria*.

Enolagria gen. n. for *Lagria affinis* Boisd. & others p. 139; *securigera* Celebes p. 140, *serripes* Victoria p. 141, spp. n., BORCHMANN t.c.

Entypodera lucidicollis p. 160, *maxima*, *tessmanni* p. 161, *guineensis* Span. Guinea, *nigrifrons* Mozambique p. 162, spp. n., BORCHMANN t.c.

Eutrapela usambica (with var. n. *sobrina*) Usambara p. 170, *dimidiata* Natal p. 172, *mima* p. 174, spp. n.; *elongata* var. n. *marginata* p. 171 Cape; *cingulata* var. n. *péringueyi* Natal p. 172, BORCHMANN t.c.

Gronophora gen. n. p. 103, *gravida* sp. n. Bachian I. p. 104, BORCHMANN t.c.

Helogria gen. n. for *Lagria pruinosa* Chev. p. 110; *fissiceps* sp. n. Philippines p. 111, BORCHMANN t.c.

Heterogria bocki p. 165, *pygmaea* p. 166 Ceylon, *andrewesi* Nilgiri Hills p. 167, spp. n., BORCHMANN t.c.—*H. nitida* Sumatra p. 3, *cyanipennis* Java p. 8, spp. n., BORCHMANN Tijdschr. Ent. 77.

Lagria gabonica Gabun p. 63, *pulchra* Siam p. 71, *speciosa* Cape p. 73, *mimula* p. 74, *abyssinica* p. 75 Abyssinia, *pallitarsis* Madagascar p. 79, *asmarensis* Eritrea p. 80, *queenslandica* p. 84, *aurofasciata* Queensland, *bainin-gensis* New Guinea p. 85, *exigua* Rhodesia p. 86, *seidlitzii* Negros I. p. 87 (*Lagriella* subgen. n.) p. 90, *andrewesi* p. 91, *mima* Nilgiri Hills (*Derolagria* subgen. n.) p. 92, *ericæ* Ruwenzori, *guineensis* Kamerun p. 93, *plumbosa* Natal p. 94, spp. n., BORCHMANN Arch. Naturgesch. 81 1916 A6.—*L. fouqueti* p. 19, *longehirta* spp. n. Tonkin; *hirticollis* var. n. *salvazai* Laos p. 20, Pic Mél. exot.-ent. 63.—*L. jacobsoni* Sumatra p. 1, *dubiosa* p. 5, *curticollis* p. 6 Java, *batoensis* Bato I. p. 7, spp. n., BORCHMANN Tijdschr. Ent. 77.

Lagriella subgen. n. see *Lagria*.

Lagriocera jacobsoni sp. n. Sumatra p. 2, BORCHMANN Tijdschr. Ent. 77.—*L. andrewesi* sp. n. Nilgiri Hills p. 127, BORCHMANN Arch. Naturgesch. 81 1916 A6.

Lagriopsis gen. n. p. 138, *insularis*, *inaequalis* Ceram, *zonata*, *rufulipennis* New Guinea, spp. n. p. 139, BORCHMANN t.c.

Lagriostira see *Alagria*.

Lopholagria gen. n. for *Lagria amoena* Fähr. p. 97, BORCHMANN t.c.

Nothogria gen. n. p. 142, *nodipennis* sp. n. Ceram p. 143, BORCHMANN t.c.

Oroptera gen. n., *physoptera* sp. n. Batu-Lawi p. 104, BORCHMANN t.c.

Physogria gen. n. for *Lagria gibbosa* Kolbe p. 108, BORCHMANN t.c.

Sora lucthi sp. n. Sumatra p. 9, BORCHMANN Tijdschr. Ent. 77.

MONOMMIDAE.

Additions to Coleopterorum Catalogus pt. 117, PIC Bull. Ann. Soc. ent. Belg. 74 pp. 96-98.

Hyporhagus biolleyi Costa Rica p. 147, *disconotatus* Fonteboa p. 148, spp. n., PIC Bull. Soc. Nat. Luxembourg. 43 1933.

Kraatziana gen. n. p. 145, *bicolor*, *conradti* spp. n. Kamerun p. 146, PIC t.c.—*K. convexa* sp. n. Gabun p. 16, PIC Mél. exot.-ent. 63.

Monomma semirufum sp. n. Gabun p. 16, PIC t.c.—*M. kraatzi* Kenya, *densepunctatum* Tonkin p. 146, *uniforme* Sudan, *horni* Ceylon (with var. n. *medio-junctum* S. India) p. 147, spp. n., PIC Bull. Soc. Nat. Luxembourg. 43 1933.

MELANDRYIDAE (SERROPALPIDAE).

Melandryidae of France, HOULBERT & BARTHE Misc. ent. 35 sep. pp. 1-32, 21 figs.

Onysius gen. n., *anomalus* sp. n. New Zealand p. 843, BROWN Man. N.Z. Col. 1886.

Osphyra bipunctata ab. n. *obsuricollis* [sic] Rumania p. 89, HÄNEL Ent. Bl. 30.

Penthe pimelia alimentary tract pp. 46-56 figs., BRUBAKER Ohio J. Sci. 34.

Serropalpus niponicus Lewis (= *barbatus* Kôno nec Schall., Mats.) p. 35, Kôno Ins. mats. 9.

SCRAPTIIDAE.

Scraptia schaefferi n. n. for *oculata* Schaef. nec Chp. p. 141, PIC Bull. Soc. zool. Fr. 59.

AEGIALITIDAE.

Aegialites see *Eurystethus*.

Eurystethus n. n. for *Aegialites* Mannh. nec Keyserling & Blasius (Aves) p. 127 (note), SEIDLITZ Dtsch. ent. Z. 1916,

OEDEMERIDAE.

Ananconia nodieri sp. n. Pondicherry p. 25, PIC Mél. exot.-ent. 63.

Asclera dalatensis var. n. *bifoveolata* Annam p. 29, PIC op. cit. 64.

Copidita albomarginata Santo Domingo, *coloradosa* Costa Rica, *viridivittata* Argentina, spp. n. p. 21, PIC op. cit. 63.

Dammarobius gen. n., *mollis* sp. n. New Zealand p. 846, BROWN Man. N.Z. Col. 1886.

Eobia testaceiceps var. n. *seraphini* Annam p. 25, PIC Mél. exot.-ent. 63.

Ezonacerda gen. n. for *Oedemera nigripennis* Mats. p. 28, Kôno Ins. mats. 9.

Falsosessinia angustata Philippines, *subparallela* Banguay, spp. n. p. 23, PIC Mél. exot.-ent. 63.

Oedemera concolor Lewis (= *lucidicollis* Mats., *manicata* Taman. nec Lew.) p. 30, Kôno Ins. mats. 9.—*O. flavipes* antennal characters p. 114, JACQUET & BONNAMOUR Bull. Soc. linn. Lyon (n.s.) 3.—*O. cocheri* sp. n. Morocco p. 21, PIC Echange 50.—*O. nigripennis* see *Ezonacerda*.

Oxaxis pallidicolor sp. n. W. Africa p. 141, PIC Bull. Soc. zool. Fr. 59.—*O. gounellei*, *trilineaticollis*, *multimaculata* p. 24, *fruhstorferi* Brazil, *binotaticeps* Costa Rica spp. n.; *bilineaticollis* var. n. *atrithorax*; 5-*notata* var. n. *subarcuata* p. 25 63; *binotatipennis* p. 29, *discoidalis*, *minasensis* spp. n.; *atricolor* varr. n. *insuturalis*, *bicoloripes* Brazil; 7-*notatus* n. n. for 5-*notatus* PIC p. 30 64, PIC Mél. exot.-ent. .

Sessinia despaignei St.-Domingo, *reducteapicalis* Bengal, spp. n. p. 22, PIC op. cit. 63.

Sisenes innatipes Brazil p. 22, *peruviana* Peru, (*Uroplatosisenes* subgen. n.) p. 23, *depressicornis*, *vittaticollis* S. America p. 24, spp. n., PIC t.c.

Uroplatosisenes subgen. n. see *Sisenes*.

Xanthochroa atripennis sp. n. China p. 29, PIC Mél. exot.-ent. 64.

Zabriola testacea sp. n. Madagascar p. 141, PIC Bull. Soc. zool. Fr. 59.

PYROCHROIDAE.

Pyrochroa subgen. n. *Pseudopyrochroa* p. 28, PIC Echange 22 1906.

Pseudopyrochroa subgen. n. see *Pyrochroa*.

Schizotus pectinicornis f. n. *kulhaneki*
Czechoslovakia p. 43, ROUBAL Misc. ent.
35.

PEDILIDAE.

Macratia fouqueti sp. n. Cambodia
p. 26, PIC Mél. exot.-ent. 63.

ANTHICIDAE.

Anthicus subgen. n. *Pseudoleptaleus*
p. 603, PIC Ann. Mus. Genova 40 1901.
—*A.* criticism of Heberdey's paper in
Bull. Soc. Maroc 12 p. 128, *belhaisei*,
diversitibia spp. n. Congo p. 233, PIC
Bull. Soc. Sci. nat. Maroc 13.—*A.*
fouqueti sp. n. Cochin China p. 142, PIC
Bull. Soc. zool. Fr. 59.—*A.* key to
Egyptian spp. p. 205, *opaculus* subsp. n.
wittmeri Egypt p. 219; *sinaiticus* Sinai
p. 235 figs., SCHATZMAYR & KOCH Bull.
Soc. ent. Egypte 17.—*A.* *subanguliceps*
sp. n. Cambodia p. 26, PIC Mél. exot.-
ent. 63.—*A.* *doveri*, *parvicollis* p. 7,
santali p. 8, *satanas* p. 9, *punctulaticeps*
p. 10, spp. n. India figs., HEBERDEY
Ind. For. Rec. 20 pt. 6.—*A.* *nitidifrons*
see *Formicomus*.

Formicomus gardneri sp. n. p. 5;
prator subsp. n. *parvicollis*; *maindroni*
subsp. n. *strigosus* p. 6 India figs.,
HEBERDEY Ind. For. Rec. 20 pt. 6.—
F. *nitidifrons* Fairm. from *Anthicus*
p. 133, PIC Rev. franç. Ent. 1.—*F.*
brevenotatus sp. n. Cochin China p. 26,
PIC Mél. exot.-ent. 63.

Notoxus subgen. n. *Pseudonotoxus* p.
189, PIC Le Naturaliste (2) 21 1899.

Pseudoleptaleus subgen. n. see *Anthi-*
cus.

Pseudonotoxus subgen. n. see *Notoxus*.

HYLOPHILIDAE.

Hylophilus ruficolor Sierra Leone
p. 18, *vagenotatus* Mozambique, *pallido-*
binotatus Eritrea p. 19, spp. n., PIC
Mél. exot.-ent. 64.

Pseudeuglenes pentatomus ♀ p. 187,
RÜSCHKAMP Ent. Bl. 30.

Xylophilus populneus biology p. 299,
MORLEY Trans. Suffolk Nat. Soc. 2.

CEPHALOIDAE.

Cephaloon revision pp. 64-70, key
p. 67, *vandykei* sp. n. California p. 69
figs., HOPPING Pan-Pacific Ent. 10.—
C. *pallens* Mots. (= *sakurae* var.
japonense Taman.) p. 32, Kôno Ins.
mats. 9.

MELOIDAE.

Key to Lyttini of Europe and N.
Africa, DE PEYERIMHOFF Bull. Soc. ent.
Egypte 18 p. 207.

Key to and list of Turkmenistan
Meloidae, REICHARDT Trud. Sov. Izuch.
proizvodit. Sil. Ser; Turkmen. pt. 6
pp. 205-239, 14 figs.

Cylindrothorax Esch. (= *Sagitta*
Esch., *Mimovesperus* Pic) p. 202,
verrucicollis ♂ ♀ p. 203 figs., DE PEY-
ERIMHOFF Bull. Soc. ent. Egypte 18.

Epicauta piceiventris p. 327, *elongato-*
calcarata p. 328, *rehni* p. 329, *excavati-*
frons p. 330, *mutchleri* p. 331, *diversipu-*
bescens p. 333 U.S.A., *pacifica* p. 330,
nigropilosa p. 332 Mexico, spp. n.,
MAYDELL Trans. Amer. ent. Soc. 60.—
E. *emmerichi* sp. n. China p. 86, PIC
Ent. NachrBl. 8.

Lagorina sericea primary larva pp.
38-44 figs., CROS Bull. Soc. Sci. nat.
Maroc 14.

Macrobasis hirsutipubescens p. 334,
maculifera p. 335, spp. n. U.S.A.,
MAYDELL Trans. Amer. ent. Soc. 60.

Meloë elegantula sp. n. Tibet p. 215,
SEMENOV-TIAN-SHANSKIĬ & ARNOLDI
Bull. Soc. ent. Fr. 39.—*M.* *violaceus*
Newp. triangulin larva identified with
Pediculus melittae Kirby p. 59, CROS
Ann. Soc. nat. Paris (10) 17.—*M.*
affinis var. *setosus* primary larva, habits
pp. 88-104 figs., CROS Bull. Soc. H.n.
Afr. N. 25.—*M.* *chrysocomus* larva pp.
427-433, CROS Bull. Soc. ent. Egypte
28.

Mimovesperus see *Cylindrothorax*.

Mylabris opacula var. n. *lépineyi* Fr.
Sudan p. 91, PIC Bull. Soc. Sci. nat.
Maroc 14.

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Gerst. p. 254, PÉRINGUEY Trans. roy.
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pp. 49-75, *dispar* var. n. *brunneipennis*
S. America p. 60; *wagneri* sp. n.
Argentina p. 69 figs., DENIER Rev. Soc.
ent. argent. 6.

Sagitta see *Cylindrothorax*.

Sitaris solieri var. n. *cabrerai* Teneriffe
p. 308 fig., DE LA ESCALERA Bol. Soc.
esp. H.n. 21 1921.

Zonitis handschini sp. n. Australia p. 110, BORCHMANN Mitt. schweiz. ent. Ges. 16.—*Z. basimaculatus* sp. n. Pondicherry p. 23, Pte Echange 50.

MORDELLIDAE.

Mordellidae of Formosa, KÔNO Ins. mats. 8 pp. 116–118.

Calycella see *Calycina*.

Calycina n. n. for *Calycella* Blair nec *Calicella* Allman p. 250, BLAIR Ent. mon. Mag. 53 1922.

Glipa tripartita sp. n. Tonkin p. 30, Pte Mèl. exot.-ent. 64.—*G. alboscuteolata* sp. n. Formosa p. 116, KÔNO Ins. mats. 8.

Mordellistena taiwana p. 117, horni p. 118, spp. n. Formosa, KÔNO t.c.

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Ciceronius schroederi Kuw. (= *antanarivae* Kuw.) p. 570; *morbillosus* Klug (= *paucipunctus* Kuw., *sinuosus* Kuw.) p. 571, HINCKS Ann. Mag. n.H. (10) 13.

Flamininus lesnei sp. n. Madagascar p. 573, HINCKS t.c.

Neoverres gen. n. p. 154, *costaricensis* sp. n. Costa Rica p. 155, HINCKS Ent. mon. Mag. 70.

Passalus spinosus Kuw. (= *biolleyi* Pang.); *caelatus* Erichs. (= *perversus* Kuw., *solidus* Kuw., *nanus* Kuw., *sulcatus* Kuw., *formosiceps* Kuw.) p. 271; *arrowi* n. n. for *nasutus* Arr. nec Perch.; *zangi* n. n. for *peruvianus* Arr. nec Kuw.; *spinulosus* n. n. for *spinosus* Arr. nec Kuw. p. 273; *interruptus* L. (= *praestigator* Kuw.); *punctiger* St. F. & S., *interstitialis* Esch. ff. and synonymy p. 274, HINCKS t.c.

Publius crassus var. n. *impressus* Colombia p. 156, HINCKS t.c.

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Solenocyclus exaratus Klug (= *segmentatus* Kuw.) p. 575, HINCKS t.c.

Verres key, *cavicollis* Bates (= *camerani* Pang., *cavilabris* Cas.) p. 56; *hageni* Kaup (= *sternipunctatus* Kuw.); *corticicola* Truq. (= *verniscatus* Cas.) p. 57; *furcilabris* Esch. (= *deficiens* Kuw., *tuberculilabris* Kuw.) p. 58, HINCKS Ent. mon. Mag. 70.

Veturius platyrhinus Westw. (= *standfussi* Kuw., *aspina* Kuw., *moevii* Kuw.); *tuberculifrons* Kuw. (= *isthmicus* Arr.); *cirrhat* Bates (= *criniceps* Kuw.) p. 153, HINCKS t.c.

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LUCANIDAE.

Auxicerus multicolor described p. 241 figs., DIDIER Terre et la Vie 4.

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Canthon gundlachi see *Canthochilum*.

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Haroldius oberthüri, *chapmani* spp. n. India p. 169, PAULIAN Bull. Soc. ent. Fr. 39.—*H. calcaratus* sp. n. India p. 33 figs., JANSSENS Bull. Ann. Soc. ent. Belg. 74.

Monoplistes leai sp. n. Queensland p. 283, PAULIAN Bull. Soc. ent. Fr. 39.

Oniticeilus semenovi sp. n. China p. 20, BALTHASAR Ent. Nachr. Bl. 8.—*O. yohenei* sp. n. Japan p. 66, MATSUMURA Ins. mats. 9.

Onthophagus koichii, *minokuchianus* p. 67, *shinanensis* p. 68, spp. n. Japan, MATSUMURA t.c.

Sawagesinella gen. n. p. 287, *monstrosa* sp. n. Australia p. 288, PAULIAN Bull. Soc. ent. Fr. 39.

Scarabaeus delaunay-larivierei sp. n. Angola p. 58, PAULIAN Misc. ent. 35.—*S. frankenbergeri* p. 146, *babori* p. 147, spp. n. Persia, BALTHASAR Ent. Bl. 30.

Strombodes see *Gisteliodes*.

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Temnoplectron reyi Queensland, *boucomonti* New Guinea, spp. n. p. 285, PAULIAN Bull. Soc. ent. Fr. 39.

Tesserodon becki sp. n. Australia p. 287, PAULIAN t.c.

APHODIIDAE.

Aphodius hungaricus n. n. for *porcellus* Friv. nec Gist.; *gisteli* n. n. for *discoidalis* Gist. nec Boh.; *pseudanalis* n. n. for *analis* Gist. nec F.; *hypocophinus* n. n. for *hypocophus* Gist. nec Heer p. 95, STRAND Arch. Naturgesch. 82 1917 A5.—*A.* subgen. n. *Mothon* p. 182, SEMENOV-TIAN-SHANSKIĬ & MEDVEDEV Rev. russe Ent. 21 1927.—*A. browni* n. n. for *smithi* Brown nec Shipp. p. 277, HINTON Ent. News 45.—*A. nubilus*, *nigroclavus* p. 188, *multimaculosus*, *spiniclypeus* p. 190, *magnopunctatus* p. 191, *saylori* p. 192 Mexico, *chapini* Panama p. 189, spp. n.; *colimaensis* n. n. for *nubilus* Hint. nec Panz. p. 200, HINTON Stylops 3.—*A. maculicollis* ab. n. *nigricans* Africa p. 60, PAULIAN Misc. ent. 35.—*A.* of Hoa-Binh pp. 110-112, *globulus* var. n. *perpunctatus* p. 110; *Balthasarianus* subgen. n., *pilifer* sp. n. p. 111, Tonkin, PAULIAN Bull. Soc. ent. Fr. 39.—*A. koichianus* sp. n. Japan p. 65, MATSUMURA Ins. mats. 9.—*A.* spp. morphology, bionomics pp. 303-396 figs., MADLE Zool. Jb. Anat. 58.—*A. rugoclypeus* sp. n. California p. 219, HINTON Canad. Ent. 66.

Ataenius falli n. n. for *consors* Fall nec Black. p. 119, HINTON t.c.—*A. miamii* sp. n. Florida p. 200, CARTWRIGHT Canad. Ent. 66.—*A. queirozii* sp. n. New Hebrides p. 219, PAULIAN Rev. franç. Ent. 1.

Balthasarianus subgen. n. see *Aphodius*.

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Mothon subgen. n. see *Aphodius*.

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Termitodius peregrinus sp. n. Costa Rica p. 340 fig., HINTON Rev. Ent. Rio de J. 4.

Xenoheptaulacus gen. n. p. 613, *carinator* sp. n. Panama p. 614 fig., HINTON Ann. ent. Soc. Amer. 27.

AEGIALIIDAE.

Aegialia browni sp. n. California p. 74, key p. 75, SAYLOR Pan-Pacific Ent. 10.

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ACLOPIDAE.

Pleocoma remota p. 23, *simi* p. 24 spp. n.; *conjungens* var. n. *hirsutus* p. 88 U.S.A., DAVIS Proc. ent. Soc. Wash. 36.

MELOLONTIIDAE.

Elaphocerida abdelkrimi sp. n. Rif p. 129 fig., DE LA ESCALERA Bol. Soc. esp. H.n. 34.

Holotrochus see *Shangaia*.

Hymenophia Moroccan spp. pp. 5–16, key p. 6, *meknesensis* p. 7, *fezensis* p. 8, *fulvescens* p. 9, *lucensis*, *maireri* p. 10, *lecerfi* p. 12, *ketamensis* p. 13, *azrouensis* *theryi* p. 14, *oudjdensis* p. 15, spp. n. Morocco figs., DE LA ESCALERA Eos 9.

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Listrochelus langeri sp. n. Rocky Mts. p. 93, CHAPIN Proc. biol. Soc. Wash. 47.

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Adoretus rhodophilus Sudan p. 119 (10) 13, *myodes* p. 479, *rhaphomori* p. 480 E. Africa (10) 14, spp. n. figs., OHAUS Ann. Mag. n.H.

Anomala ebenina ab. n. *rufobasalis* China p. 24, BALTHASAR Ent. NachrBl. 8.—*A. handschini* sp. n. Flores p. 105 fig., OHAUS Mitt. schweiz. ent. Ges. 16.

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Chlorota vitrina ♂ p. 12; *angulicollis* sp. n. Colombia p. 13, OHAUS t.c.

Didrepanophorus subvittatus, clermonti see *Fruhstorferia*.

Fruhstorferia subvittatus Bend., clermonti Bend. from *Didrepanophorus* p. 14, OHAUS t.c.

Gilletia nigriceps see *Chasmodia cachectica* subsp. *fusciventris*.

Hypaspidius crassus Ohs. (= *apolinairei* Bend.) p. 15, OHAUS t.c.

Ischnopopillia purpuricollis ab. n. *viridana* China p. 24, BALTHASAR Ent. NachrBl. 8.

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Lasiocala burgeoni sp. n. Colombia, Pennsylvania p. 11, OHAUS t.c.

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DYNASTIDAE.

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Agacephala Serv. (= *Agacephala* Latr.) p. 58, PRELL Ent. Bl. 30.—*A. inermicollis* see *Ageocephala*; *bolbo- cerida* see *Brachysiderus*.

Allomyrina, subgen. *Allomyrina*, *Trypoxylus*, *Xyloscapes* p. 58, PRELL Ent. Bl. 30.—*A. pfeifferi* Redt. (= *Xylotrupes mindanaoensis* Schultze) p. 195, PRELL Ent. Z. 47.

Antedon see *Antodon*.

Antodon Brême (= *Antodon* Burm.) p. 58, PRELL Ent. Bl. 30.

Asemantus pusillus sp. n. Australia p. 55, PRELL t.c.

Brachysiderus bolbo- cerida Thoms. from *Agaocephala* p. 58, PRELL t.c.

Coptognathus attila see *Macrator hauseri*.

Cyclocephala gregaria sp. n. Centr. America p. 91 fig.; HEYNE & TASCHENBERG Die exot. Käfer 1907.

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Geotrupes claudius Klug (= *Scarabaeus cadmus* Oliv. var.) p. 57, PRELL t.c.

Haploscapanes barbarossa subsp. n. *similis* Australia p. 57, PRELL t.c.

Hatamus tarsalis subsp. n. *puncticollis* New Guinea p. 55, PRELL t.c.

Heteroclyster gen. n., *uniformis* sp. n. Luzon p. 163, PRELL Ent. Z. 47.

Heteronychus sacchari sp. n. Italian Somaliland p. 258 fig., PAOLI Prodr. agric. Ins. Ital. Somaliland 1934.—*H.* notes on some spp. pp. 46–57, *sacchari* further description p. 47; *citernii* sp. n. Italian Somaliland p. 53; *parumpunctatus* ♀ p. 55 figs., PAOLI Boll. Soc. ent. ital. 66.

Hovoryctes subgen. n. see *Oryctes*.

Lycotharses gen. n. p. 58, *tridentiger* sp. n. Ecuador p. 59, PRELL Ent. Bl. 30.

Macrator hauseri Reitt. (= *Coptognathus attila* Mén.) p. 57, PRELL t.c.

Macroryctes see *Rykanes*.

Megaceras chorinaeus F. (= *cilix* Drap. ♀); *inflatum* Peru, *punctato- striatum* locality unknown spp. n.; *septentrionis* Bates good sp. p. 57, PRELL Ent. Bl. 30.—*M. morpheus* Burm. (= *izion* Rehe.) p. 195, PRELL Ent. Z. 47.

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Ochrosidia knobelae sp. n. Arkansas p. 23, BROWN Canad. Ent. 66.

Oryctes sinaica Wlk. (= *arabicus* p. 194, *matthiesseni* Reitt., *desertorum* Arrow p. 187); *gigas* Cast. (= *bluchaei* Fairm.) p. 188, PRELL Ent. Z. 47.—*O. sinaica* Wlk. (= *desertorum* Arr.); *boas* var. n. *unituberculata* Uganda; *gracilis* sp. n. Congo; *elegans* Prell (= *piesbergeri* Bodem.) p. 59; *rhinoceros* L. (= *stentor* Cast.); *Hovoryctes* subgen. n. p. 60, PRELL Ent. Bl. 30.

Oryctoderus anguliceps sp. n. Solomons p. 55, PRELL t.c.

Oryctophileurus varicosus sp. n. locality unknown p. 56, PRELL t.c.

Papuana orientalis New Hebrides p. 164, *fallax* Halmaheira I. p. 186, spp. n., PRELL Ent. Z. 47.

Parapucaya gen. n., *amazonica* sp. n. Amazonas p. 162, PRELL t.c.

Pareteronychus gen. n., *dyscinetoides* sp. n. Borneo p. 163, PRELL t.c.

Phileurus didymus var. *miles*; *valgus* varr. *pumilus*, *similis*, *alternans* nomina nuda S. America p. 99, HEYNE & TASCHENBERG Die exot. Käfer 1907.—*P. hospitus* sp. n. Brazil p. 56, PRELL Ent. Bl. 30.

Phyllognathus hauseri Reitt. a race of *excavatus* Forst. (= *silenus* F.) p. 57, PRELL t.c.—*P. prostomis* see *Pycnoschema*.

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Pseudosyrichthus gerstaeckeri E. Africa, *variolosus* Eritrea, spp. n. p. 56, PRELL t.c.

Pycnoschema prostomis Fairm. from *Phyllognathus* p. 57, PRELL t.c.

Rhizoplatodes ambiguus Gerst. a race of *castaneipennis* Boh.; *caviceps* sp. n. Eritrea p. 55, PRELL t.c.

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Semanopteris Hope (= *Semanotus* Lac.) p. 55, PRELL Ent. Bl. 30.

Semanotus see *Semanopteris*.

Strategus kolbeanus sp. n. Brazil p. 164, PRELL Ent. Z. 47.—*S. aloeus* L. (= *aesalus* Cast.) p. 57, PRELL Ent. Bl. 30.

Syrichthodontus impressus sp. n. S. Africa p. 56, PRELL Ent. Bl. 30.

Syrichthus dentatus subsp. n. *depressus* E. Africa p. 55, PRELL t.c.

Temnorrhynchodes gen. n. for *Temnorrhynchus truncatus* Klug p. 57, PRELL t.c.

Temnorrhynchus truncatus see *Temnorrhynchodes*.

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Trypoxylus tsunobosonis Kono is a subsp. of *dichotomus* Lin. p. 195, PRELL t.c.—*T. dichotomus* subsp. n. *politus* Indo-China p. 58, PRELL Ent. Bl. 30.

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Amithao distigma see *Gymnetina salicis*.

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Cotinis salicis see *Gymnetina*.

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Ischiopsopha tomiensis Toetan, Besi I., *gigantea* New Guinea p. 55, *keyensis* Key I. p. 56, spp. n., SCHÜRHOFF t.c.—*I. castaneipennis*, *castanoptera* see *Homoeopsopha*.

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Meroloba vittidorsis Bourg. from *Macronota* p. 53, SCHÜRHOFF Ent. NachrBl. 8.

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Bagous congoanus sp. n. Belgian Congo p. 336, HUSTACHE Rev. Zool. Bot. afr. 25.

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Corigetis priesneri sp. n. Egypt p. 142, HUSTACHE Bull. Soc. ent. Egypte 18.

Coryssopus semilineatus sp. n. Belgian Congo p. 14, HUSTACHE Rev. Zool. Bot. afr. 26.—*C. ogoouensis* sp. n. Fr. Congo p. 186, HUSTACHE Bull. Soc. ent. Egypte 17.

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Cossonus elongaticeps sp. n. Belgian Congo p. 40, HUSTACHE Rev. Zool. Bot. afr. 26.—*C. subfoveolatus* S.W. Africa, *major* Kamerun spp. n. p. 118, Voss Arb. morph. tax. Ent. Berl. 1.—*C. ruwenzoriensis*, *dorytomoides*, *kenyae*, *glacialis*, *frigidus* see *Pseudomesites*; *burgeoni*, *maynei* see *Rhyncolus*.

Crocidema gen. n. (Tropiphorini) p. 185, *californica* (type) p. 187, *nigrior* p. 188, *planifrons* p. 189, *attenuata*, *albovestita* p. 190, spp. n. U.S.A., VAN DYKE Pan-Pacific Ent. 10.

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Curculio roelofsi see *Okikuruminus*.

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Deporaus tristis distribution p. 32, ROUBAL Ent. NachrBl. 8.

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Dinorrhopala schouteniae sp. n. Java p. 273, Voss Arb. morph. tax. Ent. Berl. 1.

Dryophthorus brevis sp. n. Madagascar p. 190, Voss t.c.

Echinopeplus gen. n. (*Cylindrorrhinae*) p. 851, *dilatatus* sp. n. New Zealand p. 852, BROWN Man. N.Z. Col. 1886.

Elaeagna key to spp. p. 223, *humeralis*, *bassiae* p. 224, *doddi* p. 225, spp. n. Australia, MARSHALL Stylops 3.

Endaeus gigas sp. n. Belgian Congo p. 335, HUSTACHE Rev. Zool. Bot. afr. 25.

Entypotrachelus rufipes sp. n. Kenya p. 255, HUSTACHE t.c.

Epimechus arenicolor Fall (= *Anthonomus baccharidis* Pierce) p. 174, FALL Pan-Pacific Ent. 10.

Eremotes dispar p. 123, *brevinasis* p. 186 Kamerun, *vonmaltzani* Kamerun, Togo p. 187, spp. n., Voss Arb. morph. tax. Ent. Berl. 1.

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Eugithopus bilineatus sp. n. Philippines p. 303 fig., HELLER Philipp. J. Sci. 54.

Eupagoderes simulans p. 176, *ocellatus* p. 177, *setosus* p. 179, *huachucae* p. 180, *halli* p. 181, spp. n. U.S.A., VAN DYKE Pan-Pacific Ent. 10.

Eupiona setosa see *Neobryocheta*.

Eupyrigops maquilingi sp. n. Luzon p. 291, HELLER Philipp. J. Sci. 54.

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Gymnetron beccabungae ab. n. *fallax* Corsica; *veronicae* abb. n. *nigricolor*, *simulatum* France p. 47; *hirsutum* Desbr. (= *uncipes* Desbr.); *lanigerum* Bris. (= *grisehirtellum* Desbr.) p. 48, HOFFMANN Bull. Soc. ent. Fr. 39.—*G. pascuorum* ab. n. *lancerotensis* Canary Is. p. 166, UYTENBOOGAART Tijdschr. Ent. 77.

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Heterostylus wittei sp. n. Belgian Congo p. 326, HUSTACHE Rev. Zool. Bot. afr. 25.

Hezarthrum usambaricum sp. n. E. Africa p. 194, VOSS Arb. morph. tax. Ent. Berl. 1.

Himantium exsculptum E. Africa, *spoliatum* p. 191, *robustum* Madagascar, *curtirostris* Kamerun p. 192, spp. n., VOSS t.c.

Himeniphades gen. n. (Hylobiinae) p. 245, *bipunctatus* sp. n. Japan p. 246 fig., Kôno J. Fac. Agric. Hokkaido Univ. 33.

Homoeoniphades gen. n. (Lithini) p. 333, *nodulosus* sp. n. Belgian Congo p. 334, HUSTACHE Rev. Zool. Bot. afr. 25.

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Ischnotracheloides subgen. n. see *Ischnotrachelus*.

Ischnotrachelus uelensis p. 248 (*Ischnotracheloides* subgen. n.), *burgeoni* p. 249, spp. n. Belgian Congo, HUSTACHE Rev. Zool. Bot. afr. 25.

Ixalma javanica sp. n. Java p. 274, VOSS Arb. morph. tax. Ent. Berl. 1.

Kaiella gen. n. (Hylobiini), *maculiceps* sp. n. Belgian Congo p. 337, HUSTACHE Rev. Zool. Bot. afr. 25.

Kivuanella gen. n. (Menemachini) p. 19, *erirhinoides* sp. n. Belgian Congo p. 20, HUSTACHE op. cit. 26.

Lachnopus bivirgatus p. 621, *albo-guttatus* p. 622, (spp. n. Cuba, MARSHALL Ann. Mag. n.H. (10) 14.

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Laostates gen. n. (Calandrini) p. 186 (type *albiventris* Hell. 23 p. 6), HELLER t.c.

Leptodemasius gen. n. (Dryophthorini) p. 192, *longulus* sp. n. N. Kamerun p. 193 fig., Voss Arb. morph. tax. Ent. Berl. 1.

Leptoscapus humeralis sp. n. Belgian Congo p. 247, HUSTACHE Rev. Zool. Bot. afr. 25.

Liosystates subgen. n. see *Systates*.

Lixus sandoaensis p. 339, *collarti* p. 340, *kasaiensis* p. 341, *sedentarius* p. 342, *seydeli* p. 343, *pictipennis* p. 345, *overlaeti* p. 346, spp. n. Belgian Congo, HUSTACHE Rev. Zool. Bot. afr. 25.

Lobotrachelus carinifrons p. 18, *nigrocoeruleus* p. 19, spp. n. Belgian Congo, HUSTACHE op. cit. 26.

Macrocyrtus trilineatus sp. n. Luzon p. 319 fig., SCHULZE Philipp. J. Sci. 53.

Magdalis piceae sp. n. U.S.A. p. 85 figs., BUCHANAN Proc. ent. Soc. Wash. 36.

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Mecopus lesteui p. 151, *gabonicus* p. 152, spp. n. Gabun, HUSTACHE Bull. Soc. ent. Egypte 17.

Mecysmoderes stylicornis sp. n. India, Burma p. 51, MARSHALL Stylops 3.

Megatracheloides n. n. for *Megatrachelus* Fst. nec Perrin p. 398, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Megatrachelus see *Megatracheloides*.

Menemachus tanganyicus Tanganyika p. 21, *triangularis* Belgian Congo p. 22 *nigrosuturatus* Gabun, Belgian Congo p. 23, spp. n., HUSTACHE Rev. Zool. Bot. afr. 26.—*M. brevipennis* Congo, Guinea p. 187, *laterimaculatus* Gabun, Congo p. 188, spp. n., HUSTACHE Bull. Soc. ent. Egypte 17.

Mesites mimoides sp. n. Teneriffe p. 119, Voss Arb. morph. tax. Ent. Berl. 1.

Mesoxenomorphus piliferus sp. n. E. Africa p. 122, Voss t.c.

Metapocyrtus casiguranus p. 320, *herrei* p. 321, *dibagonus*, *prolongatus* p. 322, *tumorosus* p. 323, *mumunganus* p. 324, *iridanus* p. 325, *subpilosus*, *duyagi* p. 326, *subspinipes*, *multimaculatus* p. 327, *tristis* p. 328, *corpulentus*, *perarmatus* p. 329, *alabatanius*, *breviarmatus* p. 330 spp. n.; *reyesi* subsp. n. *daconus* p. 324 Philippines figs., SCHULZE Philipp. J. Sci. 53.—*M. currani* sp. n. Luzon p. 289 fig., HELLER Philipp. J. Sci. 54.—*M. geniculatus* subsp. n. *samarensis* Philippines p. 2, Voss Bull. Mus. H.n. Belg. 10 no. 29.

Metialma gabonica sp. n. Gabun p. 154, HUSTACHE Bull. Soc. ent. Egypte 17.—*M. anisomelis* sp. n. India p. 50, MARSHALL Stylops 3.—*M. quadratuberculata* sp. n. Belgian Congo p. 15, HUSTACHE Rev. Zool. Bot. afr. 26.

Microstylus convexicollis sp. n. Belgian Congo p. 10, HUSTACHE t.c.

Mimus laevistriatus sp. n. Mombasa p. 39, HUSTACHE t.c.—*M. apicalis* sp. n. Kamerun p. 119, Voss Arb. morph. tax. Ent. Berl. 1.

Myllocerus pauculus p. 71, *subcruciatus*, *cuspidaticollis* p. 72, spp. n. China, Voss Ent. NachrBl. 8.—*M. katanganus* p. 327, *calosicollis* p. 328, *ruandanus* p. 329, *alboscuteclatus* p. 330, *pallidicolor* p. 331, *yeboensis* p. 332, *micros* p. 333, spp. n. Belgian Congo, HUSTACHE Rev. Zool. Bot. afr. 25.—*M. aidebus* p. 140, *rabdetanus* p. 141, spp. n. Egypt, HUSTACHE Bull. Soc. ent. Egypte 18.

Nauphaeus alboplagiatus sp. n. Samar p. 301 fig., HELLER Philipp. J. Sci. 54.

Neobryocheta gen. n. for *Eupiona setosa* Hust. (type); *trapezicollis* p. 253, *hystrix* p. 254 spp. n. Belgian Congo, HUSTACHE Rev. Zool. Bot. afr. 25.

Neocimbus striatus sp. n. Belgian Congo p. 246, HUSTACHE t.c.

Neopyrgops prasina sp. n. Luzon p. 292, HELLER Philipp. J. Sci. 54.

Neorhyncholus gen. n. (Rhyncolini) p. 193, *nigritus* sp. n. Kamerun p. 194 fig., Voss Arb. morph. tax. Ent. Berl. 1.

Neseremnus gen. n. type *Eremnus rusticanus* Fst. p. 150, MARSHALL Ann. Mag. n.H. (9) 8 1921,

Nesolorodops gen. n. (Leptopinae),
myersi sp. n. Cuba p. 627, MARSHALL
 op. cit. (10) 14.

Niphades rufus sp. n. Belgian Congo
 p. 338, HUSTACHE Rev. Zool. Bot.
 afr. 25.

Nipponiphades gen. n. for
Scaphostethus foveolatus Hust. p. 244
 fig., Kôno J. Fac. Agric. Hokkaido
 Univ. 33.

Nyella tuberculata further description
 p. 262, OKE Proc. roy. Soc. Vict. 46.

Okikuruminus gen. n. for *Curculio*
roelofsi Har. p. 241 (with subsp. n.
sachalinensis Japan p. 243) Kôno
 J. Fac. Agric. Hokkaido Univ. 33.

Omotemnus variabilis p. 243, *regalis*
 p. 245, spp. n. Java figs., GÜNTHER
 Int. ent. Z. 28.

Oreocharis gen. n. (Eirrhiniinae),
nigriceps p. 864, *pigularis*, *nigrescens*
 p. 865, spp. n. New Zealand, BROWN
 Man. N.Z. Col. 1886.

Orthorrhinus rugosus subsp. n.
philippinus; *brevirostris* sp. n.
 Philippines p. 294, HELLER Philipp.
 J. Sci. 54.

Ospilia key to Indian spp. p. 51.
bombacis sp. n. United Provinces p. 50.
 MARSHALL Stylops 3.—*O. multiguttata*
 sp. n. Belgian Congo p. 17, HUSTACHE
 Rev. Zool. Bot. afr. 26.—*O. obesa*
 p. 155, *bimaculata* p. 154 (also Ivory
 Coast), *albobasalis* p. 157, *bella* p. 158,
crassicornis p. 159, *crinitarsis* p. 160,
fulvotincta p. 161, *impressa* p. 162,
nigriclava (also Fr. Congo) p. 163,
silvatica p. 164, spp. n. Gabun,
 HUSTACHE Bull. Soc. ent. Egypte 17.

Ospiliades nebulosus sp. n. Gabun
 p. 153, HUSTACHE t.c.—*O. vinaceus*
 sp. n. Belgian Congo p. 16, HUSTACHE
 Rev. Zool. Bot. afr. 26.

Otidognathus uphanes Canton p. 454
 (with subsp. n. *tonkinensis* Laos),
perminutus Tonkin p. 455, spp. n.
 figs., GÜNTHER Int. ent. Z. 28.

Otiorrhynchus revision of Spanish
 spp. pp. 261–295, key p. 262, *getschmanni*
 subsp. n. *kricheldorfii* p. 269 (with
 f. n. *nigrofemorialis* p. 270); *morio*
 subsp. n. *melanopus* p. 279 (with
 f. n. *rufomorior* p. 280), *estrellaiensis*
 p. 281; *jugicola* subsp. n. *pseudan-*
darensis p. 289; *gertraudae* sp. n.
 p. 291 Spain fig., ZUMPT Bol. Soc.
 esp. H.n. 34.—*O.* of Alai, Pamirs

pp. 156–158, *zumpti* sp. n. Pamirs
 p. 156, LONA Dtsch. ent. Z. 1933.—
O. corsicus var. n. *balachowskyi* Corsica
 p. 88, HOFFMANN Rev. franç. Ent. 1.—
O. seriatosetulosus Caucasus p. 37,
jugigradens Iskander Lake p. 39,
 spp. n., HÄNEL Kol. Rdseh. 20.—
O. proximus var. n. *depauperatus*
 p. 348; *hormuzachii* sp. n. p. 349
 Bukovina, PENECKE Bul. Fac. Sti.
 Cernăuți 5 1932.

Oxyonyx priesneri sp. n. Egypt p. 144,
 HUSTACHE Bull. Soc. ent. Egypte 18.

Pachonyx inversa sp. n. Mindanao
 p. 298 fig., HELLER Philipp. J. Sci. 54.

Pachyrrhynchus stellulifer subsp. n.
abranus; *orbifer* subsp. n. *murinus*
 Luzon p. 288 figs., HELLER t.c.—*P.*
monilifer stellulifer var. n. *neojugifer*
 p. 315; *rizali* p. 316, *galeraensis* p. 317,
davaoensis spp. n.; *regius* var. n.
boronganus p. 318; *bucasanus* subsp. n.
ornatus p. 317 Philippines figs., SCHULZE
 Philipp. J. Sci. 53.—*P. speciosus samar-*
ensis f. n. *regi* Philippines p. 1, Voss
 Bull. Mus. H. n. Belg. 10 no. 29.

Paipalesomus forcatus sp. n. China
 p. 76, Voss Ent. Nachr. Bl. 8.

Paramorphocerus gen. n. (Amorpho-
 cerini), *parcus* sp. n. E. Africa p. 187,
 Voss Arb. morph. tax. Ent. Berl. 1.

Paraorus gen. n. (Aorini), *vulgaris*
 sp. n. W. Africa p. 120, Voss t.c.

Parasystates kivuensis sp. n. Belgian
 Congo p. 266, HUSTACHE Rev. Zool. Bot.
 afr. 25.

Parepiiphyllax gen. n. (Campyloscelini)
 p. 31, *notatus* sp. n. Belgian Congo p. 32,
 HUSTACHE op. cit. 26.

Pentarthrum castaneum Madagascar,
crassirostris Ashanti spp. n. p. 122,
 Voss Arb. morph. tax. Ent. Berl. 1.

Peritmetus rugosipennis sp. n. p. 258;
viridulus var. n. *minor* p. 259 Belgian
 Congo, HUSTACHE Rev. Zool. Bot. afr.
 25.

Phaenomerus affinis sp. n. Belgian
 Congo p. 33, HUSTACHE op. cit. 26.

Phylanticus denticulatus sp. n. Belgian
 Congo p. 23, HUSTACHE t.c.

Phytonomus see *Hypera*.

Piazorhinus unicolor p. 141, *leuco-*
pectoralis p. 142, spp. n. Costa Rica,
 Voss Ent. Bl. 30.

Platymiscus nigrodorsum sp. n. Belgian Congo p. 325, HUSTACHE Rev. Zool. Bot. afr. 25.

Plectrodontus gen. n. (Prionomerini) including *mucidus* Boh., *rufirostris* Boh. p. 175, Voss Ent. Bl. 30.

Podapion see *Protapion*.

Polyaunbus gen. n. for *Hylobius gebleri* Boh. p. 241 fig., Kôno J. Fac. Agric. Hokkaido Univ. 33.

Polycleis wittei sp. n. Belgian Congo p. 243; *auriventris* ♀ p. 245, HUSTACHE Rev. Zool. Bot. afr. 25.

Prepodes humeridens Cuba p. 623, *frenatus* Haiti, Dominican Republic p. 624 spp. n.; *pictus* subsp. n. *fulvovirgatus* Cuba p. 625, MARSHALL Ann. Mag. n.H. (10) 14.

Prionomerus vicinus p. 173, *discretus*, *dissimilis* p. 174, *constricticollis* p. 175 Brazil, spp. n., Voss Ent. Bl. 30.

Prionopus gen. n. (Prionomerini), type *niger* Voss; *cyrtus* p. 143, *prodromus* Brazil p. 144, spp. n., Voss t.c.

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Pseudocholus see *Procholus*.

Pseudomesites characters p. 36, *ruvanzoriensis* Hust., *dorytomoides* H., *kenyae* H., *glacialis* H., *frigidus* H. from *Cossonus*; *burgeoni* p. 37, *metallicus* p. 38 spp. n. Belgian Congo, HUSTACHE Rev. Zool. Bot. afr. 26.

Pseudomimus foveicollis, *tenebrosus* spp. n. Kamerun p. 189; *crassirostris* subsp. n. *amitinus* E. Africa p. 190, Voss Arb. morph. tax. Ent. Berl. 1.—*P. basicornis* see *Pseudotanaos*.

Pseudorimus gen. n. (Tropiphorini) p. 182, *granicollis* (type) p. 183, *orbicollis* p. 184, spp. n. U.S.A., VAN DYKE Pan-Pacific Ent. 10.

Pseudotanaos gen. n. for *Pseudomimus basicornis* Voss (type); *angustifrons* Africa p. 188, *suturalis* E. Africa p. 189 spp. n., Voss Arb. morph. tax. Ent. Berl. 1.

Pseudotistira gen. n. (nr. *Celeuthetes*) p. 289, *subtuberculata* sp. n. Luzon p. 290 figs., HELLER Philipp. J. Sci. 54.

Rhadinomus parvus sp. n. N.S. Wales p. 254 figs., OKE Proc. roy. Soc. Vict. 46.

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Siderodactylus seydeli Belgian Congo p. 251, *angolanus* Angola p. 252, spp. n., HUSTACHE Rev. Zool. Bot. afr. 25.

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Siraton gen. n. (Erirrhinae) p. 250,
devillei sp. n. Elba p. 252, HUSTACHE
Bull. Soc. ent. Fr. 39.

Sitona hispidula bionomics pp. 807–
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Ent. 27.

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cameloides p. 152; *maculatus* sp. n.
p. 153 E. Africa, HUSTACHE Bull. Soc.
ent. Egypte 17.

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Philippines p. 302, HELLER Philipp.
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gian Congo p. 34, HUSTACHE Rev. Zool.
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p. 293, HELLER Philipp. J. Sci. 54.

Sympiezomias cylindricus sp. n. Bel-
gian Congo p. 250, HUSTACHE Rev.
Zool. Bot. afr. 25.

Systates (*Liosystates* subgen. n.) p.
269, *nyamukubianus* p. 270, *peraffinis*
p. 271, *tshibindanus* p. 272, *kivuanus*
p. 276, *ellipticus* p. 278, *kigomanus* p.
279, *overlaeti* p. 280, *variabilis* p. 281,
uviranus p. 283, *strophosomoides* p. 284,
viridulus p. 285, *squamosus* p. 286,
pupillatus p. 287, *lavirostris* p. 288
Belgian Congo, *carinicollis* Mombasa
p. 271, *erinaceus* Fr. and Belgian Congo,
Gabun p. 274, *ertli* Lukuledi p. 275,
contiguus Tanganyika p. 277, spp. n.,
HUSTACHE t.c.—*S. alticollis* p. 497,
annulatus, minimus p. 498, spp. n.
Tanganyika fig., MARSHALL Bull. ent.
Res. 25.

Tanymecus ovatus sp. n. Belgian
Congo p. 246, HUSTACHE Rev. Zool.
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(type *ruficornis* Hell. 23 p. 6), HELLER
Ent. Bl. 22 1926.

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Syria p. 17, PIC Échange 50.

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Fst. (= *nubifer* Fst.), *alaiensis* charac-
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nec Form., *hustachei* Winkl. nec Hoffm.)
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danao p. 299 fig., HELLER Philipp. J.
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burgeoni sp. n. p. 257, HUSTACHE Rev.
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189, PENECKE Ent. Bl. 30.—*T. alpinus*
♀ p. 240, HUSTACHE Bull. Soc. ent. Fr.
39.

Ulomascus spathuleus Dahomey p.
195, *spadiceus* Belgian Congo p. 198,
spp. n., key p. 199 figs., GHESQUIÈRE
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elephas.

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p. 22, EGGERS Trav. Lab. Ent. Paris 1
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Bothrosternus striatus p. 16, *affinis* p. 14 Venezuela, *brevis* Brazil, Venezuela, Bolivia p. 15, spp. n., EGGERS t.c.

Cumtlocerus niger F. (= *striatulus* Hag.) p. 1; *aterrimus*, *seriatus* spp. n. Fr. Guiana p. 12, EGGERS t.c.—*C. niger* F. (= *squamiger* Chap.) p. 27, EGGERS Ent. NachrBl. 8.

Ceratolepia niger sp. n. Fr. Guiana p. 13, EGGERS Trab. Lab. Ent. Paris 1 1933 Mém. orig. no. 1.

Cnesinus vestitus sp. n. Venezuela p. 16, EGGERS t.c.

Coccotrypes palmarum sp. n. Fr. Guiana p. 8, EGGERS t.c.

Coptonotus striatus sp. n. Fr. Guiana p. 3, EGGERS t.c.

Corthylus strigilatus p. 20, *coronatus* p. 21 Venezuela, *guayanensis* Fr. Guiana p. 22, spp. n., EGGERS t.c.—*C. serrulatus* sp. n. Bolivia p. 82, EGGERS Ent. Bl. 30.

Cryptocarenus gen. n. (non descr.) *seriatus* p. 10, *adustus* p. 11, spp. n. Fr. Guiana, EGGERS Trav. Lab. Ent. Paris 1 1933 Mém. orig. no. 1.

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Microcorthylus mexicanus sp. n. Mexico p. 81, EGGERS Ent. Bl. 30.

Monarthrum edentatus Hag. from *Phthorius* p. 3, EGGERS Trav. Lab. Ent. Paris 1 1933 Mém. orig. no. 1.

Neodryocoetes gen. n., *hymenaeae* sp. n. Fr. Guiana p. 9, EGGERS t.c.

Notoxyleborus gen. n. p. 84, *kalshoven* sp. n. Java p. 85, SCHEDL Ent. Ber. 9.

Ozopemon giganteus sp. n. German Guinea p. 38, SCHEDL Ent. Bl. 30.

Phloeosinus piceae sp. n. Quebec p. 205, SWAINE Canad. Ent. 66.—*P. philippinensis* sp. n. Luzon p. 91, SCHEDL Ent. Ber. 9.

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Premnobius lator sp. n. Fr. Guiana p. 9, EGGERS t.c.

Problechilus zonatus Eichh. (= *Meringopalpus fallax* Hag.) p. 2, EGGERS t.c.

Pycnarthrum reimoseri sp. n. Costa Rica p. 208, SCHEDL Ent. Bl. 30.

Sampsonius gen. n. (not descr.), *sexdentatus* sp. n. Fr. Guiana p. 23, EGGERS Trav. Lab. Ent. Paris 1 1933 Mém. orig. no. 1.

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Trigonogenius see *Hagedornus*.

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Xyleborus longipennis p. 25, *guayanensis* p. 26, *pseudosolarius* p. 28, *asper*, *semipunctatus* p. 30, *deplanatus* p. 32, *parallellocollis* p. 33, *sparsipilosus* p. 34, *asperipunctatus*, *maronicus* p. 35, *subaffinis* p. 36 Fr. Guiana, *discretus* Peru p. 29, *rufipes* Colombia p. 31, spp. n.; *solitarius* Hag. (= *capucinus* Hag. ♀, *urichi* Samps., *crenatus* Egg.); *varians* F. (= *insignis* Eichh.) p. 2; *nigricollis* Hag. a var. of *granalicauda* Egg. p. 3, EGGERS Trav. Lab. Ent. Paris 1 1933 Mém. orig. no. 1.—*X. kumamotoensis* p. 288, *kadoyamaensis* p. 290, *calamoides* p. 291, *osumiensis* p. 292, *onoharaensis* p. 293, *nagaensis* p. 294 spp. n. Kiushu; *bicolor* p. 295, *adumbratus* p. 296, *pelliculosus* p. 297 ♂♂, MURAYAMA Annot. zool. jap. 14.—*X. barbatulus*, *corthyloides* p. 86, *inaequalis* p. 87, *pernotus* p. 88, *rufoniger*, *semiermis* p. 89, *perminutissimus* p. 90, spp. n. Java, SCHEDL Ent. Ber. 9.—*X. kauaiensis* ♂ p. 177; *spinosulus* sp. n. Hawaii p. 178, SCHEDL Stylops 3.—*X. asperipennis* n. n. for *assamensis* Egg. nec Stebb.; *shoreae* Stebb. (= *assamensis* Stebb.) p. 27; *flavus* re-description p. 28, EGGERS Ent. NachrBl. 8.—*X. tonkinensis* Tonkin p. 39, *fusciseriatus* p. 82, *schedli* p. 83, *zilis* p. 209, Costa Rica spp. n., EGGERS Ent. Bl. 30.

PLATYPIDAE.

Supplementary notes on Platypidae of Formosa, IV, MURAYAMA J. Fac. Agric. Hokkaido Univ 35 pp. 133-149, 6 figs.

Crossotarsus horni sp. n. Java p. 247, SCHEDL Arb. morph. tax. Ent. Berl. 1.—*C. key* p. 147, *emancipatus* sp. n. Formosa p. 138, MURAYAMA J. Fac. Agric. Hokkaido Univ. 35.

Diapus key p. 148, *truncatus* sp. n. Formosa p. 143, NIJIMA & MURAYAMA t.c.

Platypus key p. 146, *arisannensis* sp. n. Formosa p. 135, MURAYAMA t.c.—*P. ursus* ♀ p. 209; *quaesitus*, *distinguendus* Costa Rica p. 210, *perbinodulus* Rio de Janeiro, *quadri-caudatus* Venezuela p. 211, *dissipabilis* Ecuador, *calix* Brazil p. 212 spp. n., SCHEDL Ent. Bl. 30.

BRENTHIDAE.

List of Brenthidæ from Tonkin, CLERMONT Bull. Soc. ent. Fr. 39 p. 125-126.

Acramorphocephalus gen. n. p. 118, *gebieni* (type) p. 120, *schoutedeni* Belgian Congo, *stabilis* Africa p. 122, spp. n. figs., KLEINE Arch. Naturgesch. 82 1918 A12.

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Amorphocephalus intermedius E. Africa p. 94, *princeps* Sudan p. 101, spp. n. figs., KLEINE loc. cit. A12.

Bolbocephalus recens sp. n. Tanganyika p. 306, KLEINE Arb. morph. tax. Ent. Berl. 1.

Cerobates projectus sp. n. Abyssinia p. 301 fig., KLEINE t.c.

Genogogus conradi sp. n. Tanganyika p. 304 fig., KLEINE t.c.

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Kleinella n. n. for *Mastax* Kl. preocc. p. 167, STRAND Arch. Naturgesch. 82 1918 A12.—*K. piceonitens* sp. n. Tahiti p. 150, KLEINE Arch. Naturgesch. 82 1918 A12.

Leptamorphocephalus gen. n. p. 132, *laborator* (type) p. 133, *nodosifer* p. 143 spp. n. Sumatra figs., KLEINE t.c.

Mastax gen. n. p. 163, *barbatus* sp. n. Queensland p. 164 figs., KLEINE t.c. See *Kleinella*.

Micramorphocephalus gen. n. p. 125, *frater* (type) E. Africa p. 128, *soror* Togo p. 130, *consobrinus* Belgian Congo p. 131, spp. n. figs., KLEINE t.c.

Mygaleicus raptor sp. n. Tanganyika p. 305 fig., KLEINE Arb. morph. tax. Ent. Berl. 1.

Parabletus see *Parorychodes*.

Parorychodes Kl. (= *Parabletus* Calabr.) p. 126, CLERMONT Bull. Soc. ent. Fr. 39.

Pseudocephalus formosus sp. n. Centr. Africa p. 302, key p. 303 fig., KLEINE Arb. morph. tax. Ent. Berl. 1.

ANTHRIDIDAE.

Allochromicis montanus sp. n. Victoria p. 252 fig., OKE Proc. roy. Soc. Vict. 46.

Apolectella albosignata sp. n. Borneo p. 8, WOLFRUM Ent. Bl. 30.

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Exillis robustus sp. n. Borneo p. 5, WOLFRUM t.c.

Melanopsacus gravatus ♂ p. 19, WOLFRUM t.c.

Misthosima incurva p. 9, *illecebrosa*, *curialis* Borneo p. 10, *imula* Basilan, *punctata*, *angulata* Mindanao p. 11 spp. n.; *crucifera* ♂ p. 10, WOLFRUM t.c.

Stenorhis ulula sp. n. Borneo p. 19, WOLFRUM t.c.

Streneoderma insigne sp. n. Mindanao p. 6, WOLFRUM t.c.

Telphes dubius p. 2, *brunneus* p. 3, *parvus* Philippines, *carinangulus* Singapore p. 4, *tricuspis* Perak p. 5 spp. n.; *mannulus* subspp. n. *sandakensis* Borneo p. 3, *sibuyanensis* Sibuyan p. 4, WOLFRUM t.c.

Longicornia.

PRIONIDAE.

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Acyphoderes sexualis Mexico p. 349, *propinquus* Panama p. 350, spp. n., LINSLEY Rev. Ent. Rio de J. 4.

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Asias n. n. for *Anoplistes* Serv. nec Westw. p. 18, SEMENOV Rev. russe Ent. 14 1914.—*A. kozlovi* sp. n. Centr. Mongolia p. 211; *heptopotamicus* Sem. a subsp. of *halodendri* Pall.; *diabolicus* Rtttr. a subsp. of *mongolicus* Ganglb. p. 212, SEMENOV-TIAN-SHANSKIĬ & ZNOIKO Bull. Soc. ent. Fr. 39.

Atimia mexicana Mexico p. 24, *helenae* U.S.A. p. 25, spp. n., LINSLEY Pan-Pacific Ent. 10.

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Callideriphus bivittatus Argentina p. 77, *flavipennis* p. 78, *rubricollis* p. 79, *signaticollis* p. 80 Brazil, spp. n. figs., MELZER Rev. Ent. Rio de J. 4.

Cantharoxylymna gen. n. p. 346, *bicolor* sp. n. Panama p. 347, LINSLEY Rev. Ent. Rio de J. 4.

Chloridolum orientale abb. n. *unicoloripes*, *rubrofemoratum* Assam p. 62; (*Parachloridolum* subgen. n. p. 67) PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.—*C. vittipennis* sp. n. Sumatra p. 2, FISHER Misc. zool. sumatr. 88.

Chlorophorus motschulskyi subsp. n. *inhirsutus* Japan; *diadema* var. n. *itoi* Korea p. 240 fig., MATSUSHITA Trans. n.H. Soc. Formosa 24.—*C. bifasciatus*, *boninensis* p. 135, *monticola*, *viridulus* p. 136, *yayeyamensis* p. 137, spp. n. Japan, KANO Kontyû 7 1933.

Clytus orientalis, *yedoensis* spp. n. Japan p. 133, KANO t.c.—*C. ambigenus* var. n. *externeinterruptus* Algeria p. 22, Pte Echange 50.

Cortodera femorata ab. n. *nigrofemorata* Rumania p. 53, MARCU Bull. Acad. Roumaine 16 1933.

Criodion toledo-pizai sp. n. Brazil p. 70, MELZER Rev. Ent. Rio de J. 4.

Cyrtoclytus sachalinensis sp. n. Sakhalin p. 134, KANO Kontyû 7 1933.

Cyrtionops oberthûri sp. n. Tonkin p. 232, CLARMONT Bull. Soc. ent. Fr. 39.

Elaphidion magnipunctata N. Mexico p. 12, *hoferi* Arizona p. 69, spp. n., KNULL Ent. News 45.

Epania watani (with subsp. n. *immaculata*) sp. n. Japan p. 131, KANO Kontyû 7 1933.

Epheus gen. n., *costifer* sp. n. New Zealand p. 871, BROUN Man. N.Z. Col. 1886.

Erythropterus gen. n., *amabilis* sp. n. Brazil p. 76 fig., MELZER Rev. Ent. Rio de J. 4.

Eucharassus nevermanni p. 74, *bicolor* p. 75, spp. n. Costa Rica fig., MELZER t.c.

Eurybatorosalia subgen. n. see *Eurybatus*.

Eurybatus (*Eurybatorosalia* subgen. n. p. 142); *lateritius* ab. n. *posticereductus* China p. 145, PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.

Eustromula keiferi sp. n. Tres Marias Is., Mexico p. 108, LINSLEY Pan-Pacific Ent. 10.

Evodinus bifasciatus ab. n. *divisus* E. Siberia p. 49, PLAVILSTSHIKOV Misc. ent. 35.—*E. clathratus* ab. n. *bucegianus* Rumania p. 53, MARCU Bull. Acad. Roumaine 16 1933.

Haruspex agnatus sp. n. Costa Rica p. 71, MELZER Rev. Ent. Rio de J. 4.

Hemilissa rufa sp. n. Costa Rica p. 73, MELZER t.c.

Leioderus kollari ab. n. *obscuratus* Ukraine p. 178, PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.

Leptura davidi sp. n. China p. 83, Pte Bull. Soc. ent. Fr. 39.—*L. bodemeyeri* sp. n. Japan p. 17, Pte Echange 50.

Mallocera aureotincta sp. n. Trinidad p. 198, LINSLEY Bull. Brooklyn ent. Soc. 29.

Neobellamira gen. n. type *Strangalia delicata* Lec. p. 15, SWAINE & HOPPING Bull. nat. Mus. Canada, Biol. Ser. 14, no. 52 1928.—*N. sequoiae* sp. n. California p. 115, HOPPING Canad. Ent. 66.

Nothorhina gardneri sp. n. India p. 1, PLAVILSTSHIKOV Ind. For. Rec. 20 pt. 10.

Odontocera carinicolis sp. n. Mexico p. 348, LINSLEY Rev. Ent. Rio de J. 4.

Oeme californica p. 162, *laticollis* p. 163, spp. n. California, LINSLEY Ent. News 45.

Ommaia rubriventris sp. n. Mexico p. 347, LINSLEY Rev. Ent. Rio de J. 4.—*O. eunomia* var. n. *rufula* Argentina p. 76, MELZER Rev. Ent. Rio de J. 4.

Omphalodera puziloi ab. n. *nigrobasalis* Japan p. 49, PLAVILSTSHIKOV Misc. ent. 35.

Parachloridolum subgen. n. see *Chloridolum*.

Paraclytus see *Triodoclytus* (*Synclytus*).

Paraphymatodes subgen. n. see *Phymatodes*.

Phymatodes testaceus abb. n. subtestaceus p. 205, subpraestustus, subcombatus p. 206 Europe, kanabei Transcaucasia p. 207; (*Paraphymatodes* subgen. n. p. 215); *alni* abb. n. brunipes, anticerecurvatus p. 220 Russia; *a. alnoides* abb. n. immarginatus Tiflis, brunescens Circassia p. 221, PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.—*P. blandus* subsp. n. *picipes* p. 165; *propinquus*, *concolor* spp. n. p. 191 California, LINSLEY Ent. News 45.—*P. semenovi* sp. n. China p. 18, PLAVILSTSHIKOV Ent. Anz. 15.—*P. testaceus* f. n. *penecke* Bukovina p. 168, MAROU Bul. Fac. Sti. Cernăuți 3 1929.

Piezocera nodicollis sp. n. Brazil 72, MELZER Rev. Ent. Rio de J. 4.

Plagionotus arcuatus and ff. p. 41, abb. n. *substauropolicus*, *bisijunctus* Transcaucasia p. 42, PLAVILSTSHIKOV Misc. ent. 35.—*P. arcuatus* notes on abb. p. 57, PIC Misc. ent. 35.

Polyzonus fasciatus abb. n. *anticeinterruptus* Mongolia, *posticeinterruptus* Siberia, *biinterruptus* China, *latefasciatus* W. Siberia p. 105, PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.

Prothema coomani sp. n. Tonkin p. 20, PIC Echange 50.

Pseudalosterna gen. n. p. 131, *orientalis* sp. n. (with varr. n. *basimaculata*, *analisis* p. 133) E. Siberia p. 132, PLAVILSTSHIKOV Ent. Bl. 30.

Psyrassa brevicornis sp. n. Texas p. 164, LINSLEY Ent. News 45.

Purpuricenus indus characters p. 3, abb. n. *intermedius*, *gardneri*, *lockleyi*, *tripartitus*; *montanus* abb. n. *submontanus* p. 4, *bimarginatus*, *kaehleriformis*, *epipleuralis* p. 5 India, PLAVILSTSHIKOV Ind. For. Rec. 20 pt. 10.—*P. montanus* ab. n. *moesta* Kashmir p. 212, SEMENOV-TSHANSKIĬ & ZNOIKO Bull. Soc. ent. Fr. 39.

Rhaphuma delicata sp. n. Japan p. 138, KANO Kontyû 7 1933.

Rhopalophora bicolorella sp. n. U.S.A. p. 336, KNULL Ohio J. Sci. 34.

Rhopalopus femoratus f. n. *castaneipennis* Czechoslovakia p. 43, ROUBAL Misc. ent. 35.

Semanotus undatus ab. n. *transversefasciatus* Europe p. 183; *bifasciatus* ab. n. *fasciatus* China p. 186, PLAVILSTSHIKOV Bestim.-Tab. europ. Col. Heft 112.

Smodicum pacificum sp. n. Magdalena I., Mexico p. 107, LINSLEY Pan-Pacific Ent. 10.

Stenhomalus v-pallidum further description p. 5, PLAVILSTSHIKOV Ind. For. Rec. 20 pt. 10.

Stenosphenus basicornis sp. n. California p. 60, LINSLEY Pan-Pacific Ent. 10.

Strangalia (*Strangalina* subgen. n. p. 228), AURIVILLIUS Col. Cat. 39 1912.—*S. circaocularis* sp. n. Sakhalin p. 18, PIC Echange 50.—*S. aurulenta* ab. n. *bidivisa* Carpathians p. 49; *quadri-fasciata caucasica* abb. n. *anticedivisa* Caucasus, Transcaucasia, *anticereducta*, Transcaucasia, *lateredivisa* Caucasus p. 50; *duodecimguttata* ab. n. *basimaculata* Siberia; *attenuata* abb. n. *mediodisjuncta* Crimea, *posticedisjuncta* Russia; *septempunctata* abb. n. *trisin-ginata* Hungary, *apicemediopunctata* Belgrade p. 51, PLAVILSTSHIKOV Misc. ent. 35.—*S. delicata* see *Neobellamira*.

Strangalina subgen. n. see *Strangalia*.

Strangalomorpha aenescens subsp. n. *atricolor* Japan p. 130, KANO Kontyû 7 1933.

Synclitus n. n. for *Paraclytus* Cas. nec Bates pp. 480, 622, 684; synonym of *Triodoclytus* Cas. p. 695, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Thranis sapporensis sp. n. Japan p. 132, KANO Kontyû 7 1933.

Tomentaromia subgen. n. see *Aromia*.

Tragocerus cylindricus sp. n. Australia p. 267 fig., CARTER Proc. Linn. Soc. N.S.W. 59.

Triodoclytus Cas. (= *Synclitus* Lucas) p. 695, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Xylotrechus basalis subsp. n. *unicolor* Japan p. 132, KANO Kontyû 7 1932.—*X. quadripes* bionomics pp. 1-11 figs., SUBRAMANIAM Bull. Dep. Agric. Mysore Ent. Ser. 11.

LAMIIDAE.

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Acanthocinus aedilis mouth-parts pp. 150-155 figs., KONTKANEN Ann. Soc. zool.-bot. Vanamo 14.

Acronia luzonica sp. n. Luzon p. 314 fig., SCHULZE Philipp. J. Sci. 53.

Adetus vanduzeei sp. n. California p. 62, LINSLEY Pan-Pacific Ent. 10.—*A. brousi* Horn from *Sicyobius* p. 182, LINSLEY Ent. News 45.—*A. truncatipennis*, *socius* p. 81, *modestus* p. 83, *flavescens* Brazil, *angustus* Argentina p. 84, spp. n. figs., MELZER Rev. Ent. Rio de J. 4.

Aegocidnus insularis sp. n. Sumatra p. 4, FISHER Misc. zool. sumatr. 88.

Agelasta basimaculata sp. n. Luzon p. 282 fig., HELLER Philipp. J. Sci. 54.

Aletretia approximata p. 85, *digna* p. 86, *bucki* p. 87, *consobrina* p. 88, *malleri* p. 90 Brazil, *costaricensis* Costa Rica p. 91, spp. n. figs., MELZER Rev. Ent. Rio de J. 4.

Alidus coomani p. 13, *plagiatus* p. 14, spp. n. Tonkin, PIC MÉL. exot.-ent. 64.

Amphionycha clathratella n. n. for *clathrata* Gist. nec Dej. p. 90, STRAND Arch. Naturgesch. 82 1917 A5.

Anoplophora angustata sp. n. S. China p. 11, PIC MÉL. exot.-ent. 63.

Armatosterna castelnaudi Thoms. (= *natalensis* Dist.) p. 54, BREUNING Novit. ent. 4.

Cacostola sulcipennis sp. n. Brazil p. 96, MELZER Rev. Ent. Rio de J. 4.

Callimation venustum ab. n. obscura Madagascar; *pontificum* Thoms. (= *gracile* Jord.) p. 52 fig., BREUNING Novit. ent. 4.

Cereopsius mindanoensis Sch. from *Pharsalia*; *marmoratus* sp. n. Mindanao p. 281 fig., HELLER Philipp. J. Sci. 54.—*C. quaestor* var. n. *connecta* Philippines p. 2, FISHER Bull. Mus. H.n. Belg. 10 no. 15.

Chariesthes (*Pseudohapheniastus* subgen. n. p. 37), *analís* ab. *jordani* n. n. for *apicalis* Jord. procc. p. 39; *argentea* ab. n. *infusca* p. 41; *bella* ab. n. *obscurior* p. 42; *freya* ab. n. *itzingeri* p. 43; *nigropunctata* sp. n. p. 44 Africa figs., BREUNING Novit. ent. 4.—*C. somaliensis* Italian Somaliland, *gestroi* Jubaland, spp. n. p. 90, BREUNING Ann. Mus. Genova 57.—*C. nobilis* see *Pseudochariesthes*.

Crucitragus subgen. n. see *Spilotragus*.

Cylindrataxia gen. n. p. 183, *salicicola* sp. n. Texas p. 184, LINSLEY Ent. News 45.

Cylindrepomus sexlineatus sp. n. Mindanao p. 312 fig., SCHULZE Philipp. J. Sci. 53.

Daphisia leopoldi sp. n. Philippines p. 4, FISHER Bull. Mus. H.n. Belg. 10 no. 15.

Dinocephalus ornatus ab. n. *confluens* Africa p. 24, BREUNING Novit. ent. 4.

Dorcadiohammus gen. n., *punctatus* sp. n. Formosa p. 8, PIC MÉL. exot.-ent. 63.

Dorcadion kubanicum sp. n. Caucasus p. 120, PLAVILSTSHIKOV Ent. Bl. 30.—*D. fuliginator* life history p. 48, HEPP Ent. Anz. 14.

Emphytoeciosoma gen. n. p. 96, *daguerrei* sp. n. Argentina p. 97, MELZER Rev. Ent. Rio de J. 4.

Enispia samarana sp. n. Samar I. p. 283 fig., HELLER Philipp. J. Sci. 54.

Epaphra minor sp. n. Luzon p. 283 fig., HELLER t.c.

Eupromus ruber larva p. 95, SASAKI Oyo-Dobutu. Zasshi 6.

Eutetrappa sedecimpunctata Motsch. (= *varicornis* Bates) p. 116, PLAVILSTSHIKOV Ent. NachrBl. 8.

Exocentrus key to Javanese spp., *tectonae* p. 36, *bauhiniae* p. 37, *actinophorae* p. 38, *kalshoveni* p. 39, *artocarp* p. 40, *drescheri* p. 41 Java, *insularis* Banka I. p. 42, spp. n., FISHER Stylops 3.

Geloharpya norrisii see *Pseudophosphorus*.

Glenea (subgen. n. *Macroglenea* p. 30, *Stiroglenea*, *Poeciloglenea* p. 31), AURIVILLIUS Ark. Zool. 13 no. 9 1920.—*G. iwakaki* sp. n. Japan p. 139, KANO Kontyû 7 1933.—*G. fulmeki* sp. n. Sumatra p. 5, FISHER Misc. zool. sumatr. 88.—*G. vestalis* p. 284, *pistrix* p. 285, spp. n. Philippines; *dido* ♂ p. 286 figs., HELLER Philipp. J. Sci. 54.

Graciella compacta ab. n. *vittata* Africa p. 32 fig., BREUNING Novit. ent. 4.

Hippopsis rufipes Yunnan p. 133, *multilineata* Tonkin p. 134, spp. n., PIC Rev. franç. Ent. 1.—*H. rufipes* var. n. *ruficolor* China p. 15, PIC MÉL. exot.-ent. 64.

Hoabinhia gen. n. p. 11, *multituberculata* sp. n. Tonkin p. 12, PIC op. cit. 63.

Hypsioma parallela sp. n. Argentina p. 93 fig., MELZER Rev. Ent. Rio de J. 4.

Idiomerus gen. n., *difficilis* sp. n. Brazil, Argentina p. 98 fig., MELZER t.c.

Imalmus fasciatus see *Pseudimalmus*.

Ipochira robusta sp. n. Tonkin p. 142, PIC Bull. Soc. zool. Fr. 59.

Ischiocentra multinotata sp. n. Brazil p. 92, MELZER Rev. Ent. Rio de J. 4.

Jeanvoinea gen. n. p. 10, *annulipes* sp. n. Tonkin p. 11, PIC M  l. exot.-ent. 63.

Lentalius obliquepictus see *Orica dorsopicta*.

Leptostylus plumeoventris sp. n. Tres Marias Is., Mexico p. 109, LINSLEY Pan-Pacific Ent. 10.—*L. falli* sp. n. Arizona p. 182, LINSLEY Ent. News 45.

Lepturges nanus Brazil p. 99, *proximus* Costa Rica p. 100, spp. n., MELZER Rev. Ent. Rio de J. 4.

Ludurgia lixoides var. n. *insuturalis* Algeria p. 22, PIC Echange 50.

Macroglenea subgen. n. see *Glenea*.

Melanauster medenbachi var. n. *sumatrensis* Sumatra p. 3, FISHER Misc. zool. sumatr. 88.

Melanopais gemmaria White (= *decipiens* Auriv.) p. 65, BREUNING Novit. ent. 4.

Microcycos gen. n., *annulicornis* (type) p. 9, *maculosus*, *abdominalis* p. 10, spp. n. Tonkin, PIC M  l. exot.-ent. 63.

Microtragus tuberculatus sp. n. Australia p. 268 fig., CARTER Proc. Linn. Soc. N.S.W. 59.

Moecotypa alboannulata Szechuan, *attenuata* p. 13, *coomani*, *jeanvoinei* p. 14 Tonkin, spp. n., PIC M  l. exot.-ent. 63.

Monochamus sartor f. n. *takaii* Japan p. 64, MATSUMURA Ins. mats. 9.

Murosternum pulchellum ab. n. *confluens* Africa p. 63, BREUNING Novit. ent. 4.

Musaria testaceovittata sp. n. S. Russia p. 18, PIC Echange 50.

Mutacoptops notatus sp. n. Tonkin p. 10, PIC M  l. exot.-ent. 64.

Niphona yanoi sp. n. Formosa p. 240, MATSUSHITA Trans. n.H. Soc. Formosa 24.

Niphonoclea ornata sp. n. Samara p. 313 fig., SCHULZE Philipp. J. Sci. 53.—*N. bifasciata* sp. n. Philippines p. 3, FISHER Bull. Mus. H. n. Belg. 10 no. 15.

Nitocris princeps larva p. 151 figs., GARDNER Bull. ent. Res. 25.

Nyctesperus subgen. n. see *Poimenesperus*.

Nyctopais burgeoni sp. n.; *mysticus* ab. n. *itzingeri* p. 47; *jordani* ab. n. *nigrescens* p. 94 Africa figs., BREUNING Novit. ent. 4.

Nyssodrys picticollis p. 105, *amparensis* p. 106, *reticulata* p. 107, *litturata* p. 108, spp. n. Brazil; *calligramma* var. n. *consobrina* Costa Rica p. 109, MELZER Rev. Ent. Rio de J. 4.

Oberrea linearis morphology, biology pp. 369–379 figs., PAILLOT Ann. Epiphyt. 19.

Oncideres irrorata p. 94, *bucki* p. 95, spp. n. Brazil figs., MELZER Rev. Ent. Rio de J. 4.

Orica dorsopicta Fairm. (= *Lentalius obliquepictus* Fairm.) p. 210, LESNE Bull. Soc. ent. Fr. 39.

Parachariesthes gen. n. p. 30, *marshalli* sp. n. Mombasa p. 31 fig., BREUNING Novit. ent. 4.

Paragraciella gen. n., *schoutedeni* sp. n. Belgian Congo p. 93 fig., BREUNING t.c.

Parasolymus gen. n., *sj  stedti* sp. n. Tanganyika p. 51 fig., BREUNING t.c.

Pharsalia mindanaoensis see *Cereopsius*.

Phelipara subvittata sp. n. Christmas I. p. 97, BLAIR Bull. Raffles Mus. no. 8 1933.

Phosphorus virescens ab. n. *griseescens* Belgian Congo p. 91, BREUNING Novit. ent. 4.

Phymasterna lacteoguttata ab. n. *confluens* Africa p. 35, BREUNING t.c.

Plagiomus holdhausi sp. n. Belgian Congo p. 45 fig., ITZINGER Novit. ent. 4.

Platyzeargyra javana sp. n. Java p. 35, FISHER Stylops 3.

Poeciloglenea subgen. n. see *Glenea*.

Poimenesperus ochraceus p. 56, *griseomarmoratus* p. 57 Sierra Leone, *holdhausi* (ITZINGER), *schoutedeni* Belgian Congo p. 58, *strandii* Kamerun p. 60 spp. n.; *taeniatus* ab. n. *nubilus* Africa p. 59; *thomsoni* Pasc. (= *lyrifer* Hintz) p. 60; *Nyctesperus* subgen. n. p. 61; *dobraei* ab. n. *latevittata*; *imitans* Belgian Congo, *albomaculatus* Gabun spp. n. p. 95 figs., BREUNING Novit. ent. 4.

Pothyne pauloplicata sp. n. Tonkin p. 14, PIC MÉL. exot.-ent. 64.

Probatiomimus zikani Brazil, Paraguay p. 103, *eximius* Brazil p. 104, spp. n., MELZER Rev. Ent. Rio de J. 4.

Probatius aestimabilis sp. n. Brazil p. 101, MELZER t.c.

Prosopocera patrizii p. 87, *propinqua*, *patriziana* p. 89, *parvula* p. 90, spp. n. Jubaland; *robecckii* var. n. *albipennis* Italian Somaliland p. 89, BREUNING Ann. Mus. Genova 57.

Proteuclea palawana sp. n. Palawan p. 313 fig., SCHULZE Philipp. J. Sci. 53.

Psacotheta gen. n. p. 400, GAHAN Ann. Mag. n.H. (6) 2 1888.

Pseudabryna hieroglyphica sp. n. Luzon p. 312 fig., SCHULZE Philipp. J. Sci. 53.

Pseudimalmus gen. n. for *Imalmus fuscatus* Hintz p. 50 fig., BREUNING Novit. ent. 4.

Pseudocalamobius laosensis sp. n. Laos p. 14, PIC MÉL. exot.-ent. 64.

Pseudochariesthes gen. n. for *Chariesthes nobilis* Jord. p. 27 (with abb. n. *reducta*, *jordani*, *schoutedeni* Africa); *arrowi* p. 28, *lesnei* (with ab. n. *lockleyi* p. 30) p. 29 spp. n.; *nigroguttata* ab. n. *blairi* p. 29, Africa figs., BREUNING Novit. ent. 4.

Pseudodoliops gen. n., *schwarzeri* sp. n. Mindanao p. 315 fig., SCHULZE Philipp. J. Sci. 53.

Pseudohapheniastus subgen. n. see *Chariesthes*.

Pseudophosphorus gen. n. for *Geloharpya norrisii* Westw. p. 88, BREUNING Novit. ent. 4.

Pseudospermus gen. n. p. 14, *griseescens* sp. n. Tonkin p. 15, PIC MÉL. exot.-ent. 64.

Pseudotragsiscus gen. n. for *Tragiscoschema venus* Jord. p. 54 fig., BREUNING Novit. ent. 4.

Pseudotragocephala gen. n. for *Tragocephala nigropicta* Fairm. p. 48, BREUNING t.c.

Pterolophia postfasciculata, *multisignata* p. 11, *notaticeps*, *bipartita* p. 12, *angustelineata* p. 13 Tonkin, *elongata* China, spp. n.; *binotatiscollis* var. n. *latealba* Tonkin p. 12, PIC MÉL. exot.-ent. 64.

Rhapidopsis melaleuca ab. n. *blairi* Rhodesia p. 25; *zonaria* ab. n. *apicemaculata* Natal p. 93 fig., BREUNING Novit. ent. 4.

Saperda of U.R.S.S. pp. 193-200; *chrysargyrea* ab. n. *conjuncta* Sakhalien, Japan p. 194, BAROVSKIĖ Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.

Sciadosoma gen. n. p. 102, *umbrosum* sp. n. Brazil p. 103 fig., MELZER Rev. Ent. Rio de J. 4.

Sicyobius brousi see *Adetus*.

Sodus unifasciatus sp. n. Tonkin p. 13, PIC MÉL. exot.-ent. 64.

Spilotragus variabilis sp. n. (with abb. n. *ochracea*, *albescens*, *interrupta*) E. Africa; *Crucitragus* subgen. n. p. 23 figs., BREUNING Novit. ent. 4.

Stenostola konoï sp. n. Japan p. 140, KANO Kontyû 7 1933.

Stesilea bilineaticollis sp. n. Tonkin p. 11, PIC MÉL. exot.-ent. 64.

Stiroglenea subgen. n. see *Glenea*.

Thylactus uniformis sp. n. S. China p. 10, PIC MÉL. exot.-ent. 63.

Trachystola difformis sp. n. Szechuan p. 12, PIC t.c.

Tragiscoschema holdhausi (ITZINGER) Abyssinia, *elegantissimum* (BREUNING) Tanganyika, spp. n. figs., BREUNING Novit. ent. 4.—*T. venus* see *Pseudotragsiscus*.

Tragocephala morio ab. n. *itzingeriana* Nyasaland p. 66; *mixta* (with subsp. n. *kulzeri* p. 68) Tanganyika p. 67, *gracillima* Belgian Congo p. 70 spp. n.; *mniszcehi* abb. n. *arrouniana* Belgian Congo p. 69, *connexa* Kamerun p. 70; *guerini* abb. n. *interrupta* p. 72, *jordani reducta*, *schoutedeni* p. 73; *nobilis* abb. n. *griseescens* p. 75, *transitiva*,

extrema p. 77, *glauco-signata*, *azurea*, *conjuncta*, *deltoidea*, *nivea*, *connata* p. 78, *latevittata* p. 79; *suturalis* ab. n. *pseudogorilla* p. 80 Africa; *ducalis* ab. n. *confluentina* Mashonaland p. 83; *jucunda* abb. n. *blairi*, *madagasariensis* p. 84, *nigroplagiata*, *lesnei*, *unicolor* Madagascar p. 85; *freyi* abb. n. *ochrescens*, *grandidieri* p. 86; *variegata* ab. n. *sulphurea* p. 88 Africa figs., BREUNING Novit. ent. 4.—*T. nigropicta* see *Pseudotrigocephala*.

Trysimia alboapicalis sp. n. Tonkin p. 9, PIC MÉL. exot.-ent. 63.

Zotale alternata sp. n. Tonkin p. 11, PIC MÉL. exot.-ent. 64.

BRUCHIDAE (LARIIDAE).

Bruchus rufoapicalis, *bilineatus*, *baeri* p. 17 (with f. n. *girardi*), *tapianus* p. 18 spp. n. Argentina, PIC Rev. Soc. ent. argent. 6.—*B. rotroi* sp. n. Morocco p. 17; *obscurus* var. n. *longithorax* Uganda p. 23, PIC Echange 50.—*B. rufimembris*, *starkei* Colombia, *bilineaticollis*, *notaticollis* p. 27, *cephalotes*, *marginalicollis* (with var. n. *mattous*) *banghaasi* p. 28, *donckieri*, *variegatipennis* p. 29 Brazil, *ricaensis*, *minusculus* Costa Rica p. 28, *lemoulti* Fr. Guiana (with var. n. *wagneri* Argentina) p. 29, *haddeni* Philippines p. 30, spp. n., PIC MÉL. exot.-ent. 63.—*B. schaumii* sp. n.; *maculatopygus* var. n. *unicoloripennis* Brazil p. 117, PIC Arb. morph. tax. Ent. Berl. 1.—*B. obtectus* effects of temperature and humidity on development pp. 515–526, MENUSAN Ann. ent. Soc. Amer. 27.—*B. pisorum* flight studies pp. 534–542 figs., WAKELAND J. econ. Ent. 27.

Pseudopachymerus steinbachi sp. n. Bolivia p. 116, PIC Arb. morph. tax. Ent. Berl. 1.

Phytophaga.

Catalogue of Phytophagous beetles of China (cont.), LIU Lingnan Sci. J. 13 pp. 109–133, 239–250, 633–660.

New records of Indiana Chrysomelidae, TRIPP Bull. Brooklyn ent. Soc. 29 pp. 74–76.

SAGRIDAE.

Atalasis sagroides varr. n. *atricollis*, *ruficollis*, *bijuncta* Argentina p. 4, PIC MÉL. exot.-ent. 64.

DONACIIDAE.

Cyphogaster subgen. n. see *Donacia*.

Donacia (*Cyphogaster* subgen. n. p. 215), *tuberfrons* sp. n. China p. 221, GOECKE Kol. Rdsch. 20.—*D. marginata* ab. n. *chlamydata* Czechoslovakia p. 129, BALTHASAR Ent. NachrBl. 8.

Plateumaris tenuicornis sp. n. Bosnia p. 128; *discolor* ab. n. *tatrica* Czechoslovakia p. 130 fig., BALTHASAR t.c.

MEGALOPIDAE.

Colobaspis atrithorax sp. n. China p. 87, PIC Ent. NachrBl. 8.

Temnaspis quadriplagiata sp. n. India p. 225, BRYANT Stylops 3.

CRIOCERIDAE.

Miscellaneous notes on Japanese Cricerinae, CHŪJŌ Sylvia 4 1933 pp. 60–64.

Crioceris duodecimpunctata, *asparagi* morphology, biology pp. 415–442 figs., DINGLER Z. angew. Ent. 21.—*C.* key to Japanese spp. p. 43, *formosensis* sp. n. Formosa p. 47 fig., CHŪJŌ Sylvia 4 1933.

Lema key to Japanese spp. p. 20, *takara* p. 23, *paagai* p. 25, *nitobei* p. 28, *persicariae* p. 38 Formosa, *coreana* Korea p. 30, spp. n.; *fortunei* Baly (= *postrema* Bates) p. 62, CHŪJŌ t.c.—*L. koshunensis* sp. n. Formosa p. 282, CHŪJŌ Arb. morph. tax. Ent. Berl. 1.—*L. atricollis* sp. n. Madagascar p. 135, PIC Rev. franc. Ent. 1.—*L. bifoveipennis* China, *lateflava* spp. n. p. 1; *viridesuturalis* varr. n. *paulonotata*, *diversinotata* p. 2 Abyssinia, PIC MÉL. exot.-ent. 64.

Lilioceris lili ab. n. *biguttata* Germany p. 31, MÜNZNER Ent. Rdsch. 51.—*L. lili* ab. n. *schepmani* Denmark; *faldermanni* var. n. *notaticollis* Asia Minor p. 21; *bipartiticollis* sp. n. China p. 22, PIC Echange 50.

Sigrisma ventralis sp. n. Congo p. 2, PIC MÉL. exot.-ent. 64.

CLYTRIDAE.

Aetheomorpha coorgensis sp. n. India p. 226, BRYANT Stylops 3.

Aspidolopha nigrocurvilinea, *ornaticollis* spp. n. India p. 227, BRYANT t.c.

Clytrasoma mediofasciata Philippines, *tonkina* Tonkin, spp. n. p. 3, PIC MÉL. exot.-ent. 64.

Coptocephala notaticollis sp. n. Uganda p. 7, PIC op. cit. 63.—*C. lépineyi* sp. n. Fr. Sudan p. 92, PIC Bull. Soc. Sci. nat. Maroc 14.

Cyaniris japonica var. n. *formosana* p. 284; *sauteri* sp. n. p. 286 Formosa, CHÛJÔ Arb. morph. tax. Ent. Berl. 1.—*C. mandarina* sp. n. no locality, var. n. *basidisjuncta*, *latereducta* China p. 20, PIC Echänge 50.

Gynandrophthalma flaviventris sp. n. India p. 226, BRYANT Stylops 3.

Proctolytra rufithorax Guinea, *diverse-notata* spp. n. p. 2; *abyssinica* var. n. *atripes* p. 3 Ubangi, PIC Mél. exot.-ent. 64.

CRYPTOCEPHALIDAE.

Arthrochlamys n. n. for *Chlamys* Knoch nec Bolten p. 642 (note), IHERING Rev. Mus. Paulista 6 1904.

Bryobates gen. n. p. 873, *coniformis* sp. n. New Zealand p. 874, BROUN Man. N. Z. Col. 1886.

Chlamys see *Arthrochlamys*.

Cryptocephalus moraei ab. n. *alleoni* Constantinople p. 214 (note); *bilineatus* ab. *weiseri* n. n. for *b. moestus* Ws. nec 10-*punctatus* ab. *moestus* Ws. p. 345, PORTEVIN Encycl. ent. 17.—*C. amatus* Hald. (= *apicidens* Fall) p. 174, FALL Pan-Pacific Ent. 10.—*C. violaceus* ab. n. *viridicollis* Istria Seiser Alps p. 90, HÄNEL Ent. Bl. 30.—*C. formosanus* p. 287, *sauteri* p. 289, *nitidissimus* p. 290, spp. n. Formosa, CHÛJÔ Arb. morph. tax. Ent. Berl. 1.—*C. maculicollis* var. n. *douararus* Egypt p. 21, PIC Echänge 50.

Diaspis see *Skwarraia*.

Exema fulvitaris sp. n. India p. 228, BRYANT Stylops 3.

Lamprosoma key to Japanese spp. p. 243, *formosensis* sp. n. Formosa p. 245, CHÛJÔ Trans. n.H. Soc. Formosa 24.

Melixanthus formosensis sp. n. Formosa p. 291, CHÛJÔ Arb. morph. tax. Ent. Berl. 1.

Monachulus scaphidioides new to U.S.A. p. 174, FALL Pan-Pacific Ent. 10.

Skwarraia n. n. for *Diaspis* Lac. nec Costa p. 9, VAN EMDEN Zool. Auz. 101 1932.

EUMOLPIDAE.

Aulexis sinensis sp. n. Tonkin p. 186, CHEN Ann. Soc. ent. Fr. 103.

Chrysochus auratus morphology pp. 65–75 figs., WILSON J. N.Y. ent. Soc. 42.—*C. brevefasciatus* sp. n. Shanghai p. 8, PIC Mél. exot.-ent. 63.

Corynodes undatus var. n. *subconcolor* Cambodia, *cyaneofasciatus*; *pyrospilotus* var. n. *inapicalis*, *perroudi* Cochin China; *latus* p. 4, *minutus* Malacca, *yunnanus* Yunnan, *rufipennis* Burma p. 5, *bonneuili* Siam p. 6, spp. n., PIC op. cit. 64.

Nodostoma atricollis p. 6, *atriveatre* (with var. n. *approximatum* China), *femorale* (with var. n. *hanotense*) Tonkin, *brunneopunctatum* Fukien, spp. n.; *martini* var. n. *lineatum*, *interruptum*, *linguei* no locality p. 7, PIC t.c.

Syagrus calcaratus larva p. 149 figs., GARDNER Bull. ent. Res. 25.

Trichochrysea superba sp. n. Indo-china p. 6, PIC Mél. exot.-ent. 64.

CHRYSOMELIDAE.

Division of Chrysomelinae into 2 tribes, CHEN Bull. Soc. ent. Fr. 39 p. 38.

Chrysomelinae from Australian region, LHOSTE Ann. Soc. ent. Fr. 103 pp. 347–362, 7 figs.

Ambrostoma sublaevis sp. n. Korea p. 66, CHEN Stylops 3.

Anica gen. n., *rufipes* sp. n. Australia p. 355, LHOSTE Ann. Soc. ent. Fr. 103.

Calolina gen. n. p. 355, *geminata* (type) Australia, *testacea* New Britain spp. n. p. 356, LHOSTE t.c.

Calomela chrysomeloides New Holland p. 351, *testacea* Australia p. 352, spp. n. figs., LHOSTE t.c.

Chalcomela purpureipennis Lea from *Stethomela* p. 354, LHOSTE t.c.—*C. tricolor* see *Diacosma*.

Chrysochloa speciosissima ab. n. *fothi* Bavaria p. 90, HÄNEL Ent. Bl. 30.

Chrysomela brullei n. n. for *lepidula* Brullé nec Ol. p. 232 (note), PORTEVIN Encycl. ent. 17.—*C. marginata*, life-history, food-plants p. 23; *orichalcea* life-history p. 27, KLEINE Mitt. ent. Ges. Halle 13.

Diasoma tricolor var. n. *nigra*, violacea Australia; *impressicollis* New Guinea, *quadrimaculata* no locality, spp. n. p. 360; *tricolor* Lea from Chalcomela p. 359, LHOSTE Ann. Soc. ent. Fr. 103.

Melasoma formosana var. n. *emmerichi* p. 86, PIC Ent. NachrBl. 8.

Mesoplatys ochroptera larva p. 270 figs., CHEN Bull. Soc. ent. Fr. 39.

Microdera see *Strickerus*.

Paromela (LHOSTE) gen. n. p. 360, *transversalis* (CHEN) (type) New Guinea, *decemmaculata* (CHEN) Mindanao spp. n. p. 361 fig., LHOSTE Ann. Soc. ent. Fr. 103.

Paropsimorpha gen. n. p. 357, *prosternalis* (type), *apicalis* spp. n. Australia p. 358, LHOSTE t.c.

Phaedonia inclusa Stål from *Plagioderia* p. 66, var. n. *indica* India p. 67, CHEN Stylops 3.

Phyllocharoides rubricollis sp. n. New Guinea p. 347, LHOSTE Ann. Soc. ent. Fr. 103.

Phyllodecta viennensis morphology, biology pp. 98-104, PATER Misc. ent. 35.

Phyllomela gen. n., 6-*punctata* sp. n. Australia p. 354, LHOSTE Ann. Soc. ent. Fr. 103.

Phytodecta javanensis sp. n. (with var. n. *immaculatus*) Java p. 62 fig. CHEN Trans. Sci. Soc. China 8.—*P. affinis* Gyll. (= *nivosa* Suffr.) p. 33, SZÉKESSY Kol. Rdsch. 20.

Plagioderia septemvittata var. n. *trilineata* Philippines; *bryanti* sp. n. Perak, Sarawak p. 67, CHEN Stylops 3.—*P. cheni* sp. n. Australia p. 358, LHOSTE Ann. Soc. ent. Fr. 103.—*P. punctipennis* Philippines, *sublaevis* Ceram, spp. n. p. 61, CHEN Trans. Sci. Soc. China 8.—*P. inclusa* see *Phaedonia*.

Platymela obscuripes Australia p. 349, *maculipennis* New Guinea p. 350, spp. n. figs., LHOSTE Ann. Soc. ent. Fr. 103.

Platysocia gen. n., *parallela* sp. n. Australia, New Holland p. 357, LHOSTE t.c.

Prasocuris junci var. n. *olivaceus* Persia p. 22, PIC Echange 50.

Stethomela clavarearii sp. n. New Guinea; *leai* n. n. for *grandis* Lea nec Baly p. 353, LHOSTE Ann. Soc. ent. Fr. 103.—*S. purpureipennis* see *Chalcomela*.

Strickerus n. n. for *Microdera* Steph. nec Esch. pp. 413, 617, LUCAS Cat. alphabet. gen. subgen. Col. I 1920.

Timarcha characters pp. 35-39 figs., CHEN Bull. Soc. ent. Fr. 39.

HALTICIDAE.

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On the occurrence of some rare Halticids, HEIKERTINGER Kol. Rdsch. 20 pp. 129-137.

Acrocrypta pallida see *Chilocoristes*.

Aphthona formosana sp. n. Formosa p. 185, CHEN Ann. Soc. ent. Fr. 103.—*A. indochinensis* p. 366, *tonkinea* p. 367, Tonkin, *himalayana* India p. 371, spp. n., CHEN Sinensia 5.

Aphthonaltica hovenchuni sp. n. Szuchwan p. 63, CHEN Trans. Sci. Soc. China 8.

Aphthonomorpha gen. n. for *Crepidodera collaris* (type) Baly p. 356; *minula* sp. n. Tonkin p. 357, CHEN Sinensia 5.

Argopistes tsekooni China p. 316, *atricollis*, *flavus* India p. 317, spp. n. figs., CHEN t.c.—*A. hoenei* sp. n. China p. 25 fig., MAULIK Mitt. dtsh. ent. Ges. 5.—*A. coccinelloides* Suffr. from *Sophaena* p. 51, characters p. 52; *rubicundus* sp. n. Mexico p. 53 figs., BLAKE Bull. Brooklyn ent. Soc. 29.—*A. characters*, *biplagiatus* var. n. *rufus* China p. 72, CHEN Stylops 3.

Argopus unicolor Jac. from *Sphaeroderma* p. 72, CHEN t.c.

Chabria kuntzeni p. 398, *elliptica*, *postfasciata* p. 399, spp. n. Philippines, CHEN Sinensia 5.—*C. Jac.* (= *Dimax* Wse.) specific synonymy, *jacobyi* n. n. for *Sutrea apicicornis* Jac. nec *C. apicicornis* Jac.; *octomaculata* p. 70, *bryanti* p. 71 spp. n. Sarawak fig., CHEN Stylops 3.

Chabriosoma gen. n. p. 68, *thoracica* sp. n. Borneo p. 69 fig., CHEN t.c.

Chaetocnema cupreata p. 249, *tonkinensis* p. 250, *melonae* p. 252, *gonyonae* p. 253 spp. n. Tonkin figs., CHEN Sinensia 5.

Chilocoristes pallidus varr. n. *septem-maculatus*, *nigrofasciatus* Sarawak; *pallida* Baly from *Acrocrypta* p. 73, CHEN Stylops 3.

Crepidodera tonkinensis, *nigricollis* spp. n. Tonkin p. 452, CHEN Bull. Mus. Paris (2) 5 1933.—*C. collaris* see *Aphthonomorpha*.

Dibolia cynoglossi, *femoralis* mining habits p. 116, MANEVAL Misc. ent. 35.

Dimax see *Chabria*.

Disonycha laevigata Jac. (= *eximia* Har.) p. 51, BLAKE Bull. Brooklyn ent. Soc. 29.

Eucycla sauteri sp. n. Formosa p. 181, CHEN Ann. Soc. ent. Fr. 103.—*E. aeneipennis* Baly (= *elegantula* Jac.); *duodecimmaculata* Korea, *longicornis* p. 75, *javana*, *nigromaculata* Java, *violacea* Larat p. 76, *bella* Ceylon p. 77, spp. n., CHEN Stylops 3.

Eucyclomela gen. n. p. 73, *clypealis* (with var. n. *inornata* p. 75) sp. n. Sumatra p. 74 fig., CHEN t.c.

Griva regularis sp. n. Tonkin p. 258, CHEN Sinensia 5.

Haltica tonkinensis sp. n. Tonkin p. 391 fig., CHEN t.c.

Hespera nigra Sarawak, *suturalis* p. 77, *nigricornis* p. 78 N.W. Rhodesia, spp. n., CHEN Stylops 3.

Hyphasis tristis Tonkin p. 295, *quadrinaculatus* Borneo p. 298, spp. n., CHEN Sinensia 5.

Hyphasoma nigricornis Baly, *ceylonensis* Jac. from *Sebaethe* p. 72, CHEN Stylops 3.

Lactica hanoiensis sp. n. Tonkin p. 379 fig., CHEN Sinensia 5.

Laosia gen. n. p. 312, *variabilis* sp. n. Tonkin p. 313 fig., CHEN t.c.

Letzuana gen. n. p. 340, *depressa* sp. n. S. India p. 341 fig., CHEN t.c.

Liprus difficilis sp. n. Tonkin p. 264 fig., CHEN t.c.

Longitarsus metzei, *pinfanus* p. 352, *consobrinus* p. 353, spp. n. Tonkin figs., CHEN t.c.—*L. horni* p. 183, *taiwanicus* p. 184, spp. n. Formosa, CHEN Ann. Soc. ent. Fr. 103.

Luperomorpha aeneipennis sp. n. Tonkin p. 346, CHEN Sinensia 5.

Lypnea flava subsp. n. *tonkinensis* Tonkin p. 454, CHEN Bull. Mus. Paris (2) 5 1933.

Manobia imitata p. 383, *piceipennis* p. 384, *coomani* p. 385, *puncticollis*, *parva* p. 386, *humeralis* p. 387 Tonkin, *pustulosa* p. 400, *luzonensis*, *incerta* p. 401 Philippines, spp. n. figs., CHEN Sinensia 5.

Manobidia gen. n. p. 358, *antennata* (type) p. 359, *intermedia*, *simplicithorax* p. 360, spp. n. Tonkin, CHEN t.c.

Mantura orientalis sp. n. Tonkin p. 277, CHEN t.c.

Microcrepis gen. n., *politus* sp. n. Sikkim p. 449, CHEN Bull. Mus. Paris (2) 5 1933.

Neorthaea discoidalis sp. n. Tenasserim p. 451, CHEN t.c.

Nonarthra pulchrum sp. n. E. China p. 65 fig., CHEN Trans. Sci. Soc. China 8.

Ochrosoma atra sp. n. Tonkin p. 380, CHEN Sinensia 5.

Omeia gen. n. p. 63, *rufipes* sp. n. Szuchwan p. 64 figs., CHEN Trans. Sci. Soc. China 8.

Ophrida philippinensis sp. n. Philippines p. 394, CHEN Sinensia 5.

Parophrida gen. n., *violacea* (type) p. 395, *moseri* Philippines, *celebensis* Celebes p. 396, spp. n., CHEN t.c.

Phygasoma castanea sp. n. Sarawak p. 68, CHEN Stylops 3.

Phyllotreta vittula larval morphology pp. 158–166, 179–186, MEYER Arb. morph. tax. Ent. Berl. 1.—*P. indica* sp. n. India p. 374, CHEN Sinensia 5.

Podagricomela costipennis sp. n. Tonkin p. 186, CHEN Ann. Soc. ent. Fr. 103.

Pseudargopus gen. n. p. 453, *clypeatus* sp. n. Tonkin p. 454 fig., CHEN Bull. Mus. Paris (2) 5 1933.

Psylliodes sinensis sp. n. China-Tonkin frontier p. 240 fig., CHEN Sinensia 5.—*P. hyoscyami* early stages, biology pp. 153–161 figs., NEWTON Ann. appl. Biol. 21.

Sebaethe yunnanica Yunnan, India, spp. n. p. 455, CHEN Bull. Mus. Paris (2) 5 1933.—*S. nigricornis, ceylonensis* see *Hyphasoma*.

Sophaena coccineloides see *Argopistes*.

Sebaethoides gen. n. p. 298, *castanea* sp. n. Tonkin p. 299, CHEN Sinensia 5.

Sphaeroderma atrithorax p. 326, *flavicornis* p. 328, *nigripes* p. 329, *indochinensis* p. 330, *subgeminatum* p. 331, *pulchrum* p. 333 Tonkin, *minuta* Shembaganur p. 334, spp. n. figs., CHEN t.c.—*S. subcutangula* sp. n. Burma p. 72, CHEN Stylops 3.—*S. unicolor* see *Argopus*.

Sphaerophrida gen. n., *guttata* sp. n. Luzon p. 398, CHEN Sinensia 5.

Sutrea apicicornis see *Chabria jacybyi*.

Taizonia gen. n. p. 182, *bella* sp. n. Formosa p. 183, CHEN Ann. Soc. ent. Fr. 103.

Thrylaea unicolor sp. n. Luzon p. 398, CHEN Sinensia 5.

Tribolia gen. n. p. 450, *rufa* sp. n. Tonkin p. 451 fig., CHEN Bull. Mus. Paris (2) 5 1933.

Zipangia suturalis sp. n. China-Tonkin frontier p. 389 fig., CHEN Sinensia 5.

GALERUCIDAE.

Revision of Galerucinae of France, LABOISSIÈRE Ann. Soc. ent. Fr. 103 pp. 1–108, 54 figs.

Agelastica alni bionomics pp. 80–92 figs., JANCKE Arb. physiol. angew. Ent. Berl. 1.

Ceratia orientalis morphology, biology pp. 103–107 fig., CHAN Lingnan Sci. J. 13.

Galeruca impressicollis sp. n. Asia Minor p. 22, PIC Echange 50.

Galerucella fuscomaculata further description p. 45; *brevicollis* Panama, Costa Rica, Nicaragua p. 46, *cyclopea* p. 47, *orthodera* p. 48 Panama, *pauperata* Mexico, *oteroi* Cuba p. 49, spp. n. figs., BLAKE Bull. Brooklyn ent. Soc. 29.—*G. (Xanthogaleruca* subgen. n. p. 67);

Hydrogaleruca Laboiss. a subgen. p. 69 figs., LABOISSIÈRE Ann. Soc. ent. Fr. 103.—*G. luteola* biology pp. 37–54 figs., HRISAFI Notat. biol. București 2.—*G. birmanica* morphology, biology pp. 715–732 figs., KHATIB Ind. J. agric. Sci. 4.—*G. viburni* biology pp. 50–53 figs., LÜHMANN Ent. Bl. 30; morphology, biology pp. 531–564 figs., LÜHMANN Z. angew. Ent. 20.

Lockmaea crataegi ab. n. *flavus* England p. 231, DONISTHORPE Ent. mon. Mag. 70.

Luperodes suzukii sp. n. Japan p. 63, MATSUMURA Ins. mats. 9.—*L. femoralis* bionomics 219 pp. figs., NEZU, SAKAMOTO & SONOYAMA Shimane agric. Exp. Sta. 1933.

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Xanthogaleruca subgen. n. see *Galerucella*.

HISPIDAE.

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Systematic notes on Hispidae, UHMANN Bull. Mus. H.n. Belg. 10 no. 2 pp. 1–6.

Alurnus lansbergei var. n. *junctus* Venezuela p. 155, PIC Rev. franç. Ent. 1.—*A. atrocinctus* sp. n. (with var. n. *disjunctus*) S. America p. 8, PIC Mél. exot.-ent. 64.

Anisostena gen. n. p. 120, WEISE Verh. nat. Ver. Brünn 48 1910.—*A. angustata* p. 3, *brevicapitalis* Brazil, *testacea* Argentina p. 4, spp. n., PIC Mél. exot.-ent. 63.

Anoplitis lateapicalis sp. n. Brazil p. 4, PIC t.c.—*A. heringi* sp. n. Costa Rica p. 272 fig., UHMANN Arb. physiol. angew. Ent. Berl. 1.

Baliosus schmidtii sp. n. Costa Rica p. 274 fig., UHMANN t.c.—*B. holtzi* Paraguay p. 5, *donckieri*, *latipennis*, Brazil, *incertus* Costa Rica p. 6, spp. n., PIC Mél. exot.-ent. 63.

Callispa hessei p. 389, *nyakaënsis* p. 390, spp. n. Portuguese E. Africa, UHMANN Ann. S. Afr. Mus. 30.

Cephalodonta viridis Brazil, *breve-apicalis* Mexico, spp. n. p. 7, PIC MÉL. exot.-ent. 63.—*C. postfasciata* sp. n.; *clara* var. n. *separata* Brazil p. 143, PIC Bull. Soc. zool. Fr. 59.—*C. westwoodi* subsp. n. *testaceonotata* Venezuela p. 84, PIC Bull. Soc. ent. Fr. 39.—*C. annulicornis*, *simoni* spp. n. Venezuela p. 156, PIC Rev. franç. Ent. 1.

Cephalolia simoni sp. n. Venezuela p. 155, PIC t.c.

Chalepotatus gen. n. pp. 121, 133, WEISE Verh. nat. Ver. Brünn 48 1910.—*C. coarctatus* var. n. *inapicalis* Brazil p. 5, PIC MÉL. exot.-ent. 63.

Chalepus viridiceps Argentina, *guatemalanus* Guatemala spp. n. p. 5, PIC t.c.—*C. schmidtii* sp. n. Costa Rica p. 273 fig., UHMANN Arb. physiol. angew. Ent. Berl. 1.

Charistena minima sp. n. Mexico p. 3, PIC MÉL. exot.-ent. 63.

Cryptonychus nigrofasciatus sp. n.; *dubius* var. n. *obscurus* Gabun p. 9, PIC op. cit. 64.

Dactylispa pici sp. n. Tonkin p. 28, UHMANN Mitt. dtsh. ent. Ges. 5.—*D. viatoris* sp. n. Cape Colony, N.E. Rhodesia p. 392, UHMANN Ann. S. Afr. Mus. 30.—*D. ramuligera* Chap. (= *bellula* Gest.) p. 2, UHMANN Bull. Mus. H.n. Belg. 10 no. 2.

Decatelia testaceipes, *testaceicollis* spp. n. Brazil p. 3, PIC MÉL. exot.-ent. 63.

Demothispa carinata sp. n. Venezuela p. 154, PIC Rev. franç. Ent. 1.—*D. uhmanni* Colombia, *clermonti* Brazil, p. 2 63, *submarginata* Venezuela p. 8 64, spp. n., PIC MÉL. exot.-ent.

Downesia nigra sp. n. Tonkin, (with var. n. *major* Bengal) p. 10, PIC op. cit. 64.

Euxema elongata sp. n. Venezuela p. 154, PIC Rev. franç. Ent. 1.

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(= *intumescens* Pér. ♀); *denticollis* Mor. (= *laevifrons* Blthg.) p. 300; *pjalensis* Strand (= *subauratovestitus* Blthg.); *melanopus* D. T. (= *atritus* Vach.) p. 301; *sogdianus* Mor. (= *aenescens* Rad.); *convexusculus* Schck. (= *porcus* Mor. ♂); *punctatissimus* Sch. (= *porcus* Mor. ♀); *zonulus* Sm. (= *craterus* Lov.) p. 303; *leucozonius* Schr. (= *similis* Sm.) p. 304; *pseudonigripes* sp. n. Iskander p. 303, BLÜTHGEN Dtsch. ent. Z. 1933.—*H. satschaensis* p. 145, *sarticus* p. 146, *salebrosus* p. 156 spp. n.; *limbellus* var. n. *dongarica* p. 159; *zonulus* subsp. n. *sinister* p. 152, *dexter* p. 153 Turkestan; *fulvitaris* p. 147, *laevinodis* p. 153 ♂ ♀; *maidli* ♂ p. 151 figs., BLÜTHGEN Konowia 13.—*H. pernotescens* p. 109, *placatus* p. 110, *pernitens* p. 112, *dispositellus* p. 113, *dispositivus* p. 114, *calviniensis* p. 115, *promitus* p. 117 S. Africa, *katangensis* Belgian Congo p. 111, *matoporum* S. Rhodesia p. 116 spp. n.; *whiteanus* subsp. n. *pellitosus* Natal p. 118, COCKERELL Ann. Mag. n.H. (10) 13.—*H. grindeliae* sp. n. Colorado p. 29, COCKERELL Ent. News 45.

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Litomegachile subgen. n. see *Megachile*.

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Melissodes atraticornis sp. n. Colorado p. 9; *suffusa* var. n. *laterufa* Texas p. 10, COCKERELL Amer. Mus. Nov. no. 697.—*M. octobris* sp. n. Colorado p. 30, COCKERELL Ent. News 45.

Neomegachile subgen. n. see *Megachile*.

Nomia heteropoda varr. n. *semivalida* p. 5, *semirubra*, *atripennis* p. 6; *parksii* sp. n. p. 7 U.S.A., COCKERELL Amer. Mus. Nov. no. 697.

Nomioides elbana sp. n. Egypt p. 200, BLÜTHGEN Bull. Soc. ent. Egypte 18.—*N. malayensis* p. 493, *communis* p. 494 Malaya, *borneana* Borneo p. 496 spp. n. key to Indo-Australian spp. of *variegata* group p. 498, BLÜTHGEN J. F.M.S. Mus. 17.—*N. revision* pp. 238–283, *minutissima* varr. n. *tristis* Russia, Armenia, Turkestan etc., *fusca* Samarkand, *purpurascens* Syr Daria p. 241; *maura* var. n. *tingitana* Tangier p. 242; *turanici* varr. n. *subvariegata* Egypt, *laeta* Bukhara p. 244; *maculiventris* var. n. *convergens* Matjesfontein p. 251; *variegata* varr. n. *nigrita* Turkestan, *pseudocerea* N. Gujerat, *quinquefasciata* Okahandja p. 257, *nigriiventris* Algeria p. 258; *valdezi* varr. n. *flava* Cuernos Mts., *immaculata* Philippines p. 261; *somalica* var. n. *completa* S. Rhodesia p. 262; *chalybeata* Askahabad p. 263, *caspica* Atrek p. 266, *hybrida* Bukhara p. 269, *nigriceps* Transcaspia p. 270, *persica* S. Persia, *lahorensis* India p. 273, *madagassa* Madagascar p. 278, *seistanica* Persia p. 280 spp. n.; *aldrabrana* ♂ p. 278 figs., BLÜTHGEN Stett. ent. Ztg. 95.

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DRYINIDAE).

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Epyris politiceps p. 230, *coriaceus* p. 231, spp. n. India, MUESEBECK Rec. Ind. Mus. 36.

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Neodryinus subgen. n. *Psilodryinus* p. 497, KIEFFER in ANDRÉ t.c.

Parasierola quadrifoveata sp. n. India p. 227 fig., MUESEBECK Rec. Ind. Mus. 36.

Perisierola nephantidis p. 225, *mellipes* p. 226, spp. n. India, key to Indian spp. p. 227, MUESEBECK t.c.

Pristobethylus indicus sp. n. India p. 223, MUESEBECK t.c.

Pristocera areolata sp. n. India p. 229, MUESEBECK t.c.

Psilodryinus subgen. n. see *Neodryinus*.

Rysepyris subgen. n. see *Holepyris*.

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Revision of Scoliidae of Japan, UCHIDA J. Fac. Agric. Hokkaido Univ. 32 pp. 229-262, 2 pls.

Campsomeris schultzei ff. n. *betremi* Japan, China, Korea p. 254, *shiotsuensis* Japan, Korea p. 255; *palauensis* f. n. *uchiyamai* Palau I.; *mojiensis* p. 257, *sakaguchii* p. 260 spp. n. Japan; *prismatica* f. n. *shibatai* Japan, Formosa p. 259 figs., UCHIDA J. Fac. Agric. Hokkaido Univ. 32.

Neotiphia luteipennis Cress. p. 296, *sulcata* Rob. p. 297 from *Tiphia*, ALLEN Trans. Amer. ent. Soc. 60.

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Scolioides subgen. n. see *Scolia*.

Tiphia micropunctata p. 297, *infossata* p. 301, *confusa* p. 302, *dentata*, *hollowayi* p. 303, *convexa* p. 306, *crassipunctata* p. 307, *raui* p. 308, *unica* p. 309, *jaynesi* p. 311, *atlantis* p. 314, *insolita* p. 316 spp. n. U.S.A.; *inornata* ♀ p. 300; *vulgaris* ♂♂ p. 305; *intermedia* Mall. (= *reticulata* Mall., *intermedia* var. *exitialis* Rob.); *conformis* Mall. (= *imitatrix* Mall.); *egregia* Vier. (= *papillata* Rob.) p. 312; *waldenii* Vier. (= *brunneicornis* Vier.) p. 313, ALLEN Trans. Amer. ent. Soc. 60.—*T. popilliavora* fluctuation of population pp. 514-518, BRUNSON J. econ. Ent. 27.—*T. luteipennis*, *sulcata* see *Neotiphia*.

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Methoca Ethiopian spp. pp. 29-39 key p. 29, *braunsi* var. n. *cataractae* p. 34; *rhodesiana* p. 35, *poneroides* p. 36, *morosa* p. 37, *carinata* p. 38 spp. n. S. Rhodesia figs., ARNOLD Occ. Pap. Rhodesian Mus. no. 3.—*M. clypeata* sp. n. Perak p. 454; *violaceipennis* ♀ p. 477 figs., PAGDEN J. F.M.S. Mus. 17.

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Myrmosa dakotensis sp. n. N. Dakota p. 57, WEBER Psyche 41.

Odontomutilla key to Philippine spp. p. 132, *pedaria* p. 135, *andromeda* p. 139, spp. n. Philippines, MICKEL Philipp. J. Sci. 54.

Photomorphus myrmicoides Ckll. (= *parvula* Blake, *impar* Mel.) p. 610, ♂ p. 611, MICKEL Ann. ent. Soc. Amer. 27.

Smicromyrme key to Philippine spp. p. 189, *ilerda* subsp. n. *sparsilis* p. 191; *hyale* p. 193, *viriate* (with subspp. n. *viriate* p. 195, *nitela* p. 197), *fura* (with subspp. n. *fura* p. 198, *anthracipes* p. 200), *caerulea* p. 201, *palawanensis* p. 206, *autonoe* p. 208, *bakeri* p. 212, *lavinia* (with subspp. n. *lavinia* p. 214, *atrata* p. 216) spp. n.; *basalis* subsp. n. *annularis* p. 203; *semperi* subsp. n. *nigrogastra* p. 212 Philippines, MICKEL Philipp. J. Sci. 54.—*S. yakushimensis* sp. n. Yakushima I. p. 65, YASUMATSU Mushi 7.—*S. kellyi* sp. n. Kedah p. 439 figs., PAGDEN J. F.M.S. Mus. 17.

Squamulotilla arundinacea p. 445, *perakensis* p. 448, *selangorensis* p. 452, spp. n. Malaya figs., PAGDEN t.c.—*S.* key to Philippine spp. p. 99, *byblis* p. 101, *subtriangularis* p. 104, *galatea* p. 106, *oblectabilis* p. 109, *fucosa* p. 111, *ocypote* p. 114, *dictynna* p. 115, *imparilis* p. 117, *disjuncta* p. 118, *concava* p. 120, *roxane* p. 122, *subdebilis* p. 123, *sulpicilla* p. 125, *eminula* p. 128, *umbrosa* p. 130, *teuta* (with subspp. n. *teuta* p. 126, *vicinaria* p. 128), spp. n. Philippines figs., MICKEL Philipp. J. Sci. 54.

Timulla key to Philippines spp. p. 143, *philippinensis* subsp. n. *williamsi* p. 149; *minor* subspp. n. *whiteheadi*, *tayabasensis* p. 152, *visayensis* p. 153, *islandica* p. 155, *princesa*; *eremita* (with subspp. n. *eremita* p. 156, *umbra* p. 161), *ovatulata* (with subspp. n. *ovatulata* p. 163, *aurifera* p. 165), *depressula* p. 166, *bakeri* p. 168, *tegularia* p. 169, *tethys* p. 172, *temeraria* p. 179, *fortuita* p. 181, *nigerrima* p. 184, *sticticornis* (with subspp. n. *sticticornis* p. 186, *nigridia* p. 188) spp. n.; *luzonica* subsp. n. *panayensis* p. 162; *proserpina* subspp. n. *tibiata* p. 176, *sibuyanensis*

p. 177; *ira* subsp. n. *palawana* p. 177 Philippines figs., MICKEL t.c.—*T. pendleburyi* p. 421, *oryzae* p. 426, *krianae* p. 433, spp. n. Malaya figs., PAGDEN J. F.M.S. Mus. 17.

PSAMMOCHARIDAE (POMPIDILAE).

Psammocharidae of the Ethiopian Region, Pt. iii, ARNOLD Ann. Transv. Mus. 15 pp. 283–400, 4 pls. 85 figs.

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Corrections to "Monograph of Psammocharidae of Central, North and E. Europe" 1927, HAUPT Dtsch. ent. Z. 1933 pp. 293–298, 1 fig.

Aetheopompilus gen. n. p. 5, *oblique-truncatus* sp. n. Zululand, Lake Edward Plains p. 6 figs., ARNOLD Occ. Pap. Rhodesian Mus. no. 3.

Ageniella gen. n. type *Agenia accepta* Cr. p. 222, BANKS J. N.Y. ent. Soc. 19 1911.—*A. adara* p. 41, *julia*, *subra* p. 42, spp. n. N. Carolina, BRIMLEY Ent. News 45.

Anoplinellus gen. n. for *Pompilus clotho* Smith p. 95, BANKS Proc. Amer. Acad. Arts Sci. 69.

Anoplius Duf. (= *Pompiloides* Rad.) p. 107, *tagala* p. 93, *valdezi* p. 94, *bakeri* p. 95, spp. n. Philippines, BANKS t.c.

Anospilus inornatus sp. n. Italy p. 178, HAUPT Boll. Lab. Ent. Bologna 6.

Aporinellus gen. n. type *Aporus fasciatus* Sm. p. 223, BANKS J. N.Y. ent. Soc. 19 1911.—*A.* Banks (= *Pompiloides* Haupt nec Rad.) p. 107, *bakeri* sp. n. Luzon p. 106, BANKS Proc. Amer. Acad. Arts Sci. 69.

Aporus japonicus sp. n. Japan p. 43 fig., YASUMATSU & TORIKATA Trans. Kansai ent. Soc. no. 4 1933.

Arpactomorpha gen. n. p. 364, *pulchella* sp. n. Uganda p. 365 figs., ARNOLD Ann. Transv. Mus. 15.

Batazonus submaculatus sp. n. Mindanao p. 85, BANKS Proc. Amer. Acad. Arts Sci. 69.

Calagenia gen. n. p. 72, *hermosa* (type) p. 73 (with var. n. *violacea* p. 74), *chioranthæ* p. 72, spp. n. Philippines, BANKS t.c.

Calicurgus willowmorensis see *Hormopogonius*.

Clistoderes subgen. n. see *Prionemesis*.

Conagenia gen. n. for *Pseudagenia williamsi* Rohwer (type), *aegina* Smith, *ingenua*, *nasuta* p. 69; *smithi* sp. n. Philippines p. 70, BANKS Proc. Amer. Acad. Arts Sci. 69.

Cryptochilus hispanicus ♂ ♀ p. 59, fig., BERNARD Bull. Soc. ent. Fr. 39.

Cryptosalix spinosipes see *Trachyglyptus*.

Cyemagenia gen. n. for *Pseudagenia kloofensis* Cam. (type) p. 381, *P. rubrozonata* Cam. p. 383, *P. rhodesiana* Bish.; *ugandensis* Uganda p. 382, *imitatrix* Natal p. 384, *modesta* S. Rhodesia p. 385, spp. n. figs., ARNOLD Ann. Transv. Mus. 15.

Cyphononyx rizali p. 18, *valdezi* p. 19, *claggi* p. 20, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.—*C. ustus* sp. n. Palawan p. 2, HAUPT Bull. Mus. H. n. Belg. 9 1933 no. 47.

Dentagenia gen. n. for *Salix madraspatanus* Bingh. (type) p. 4, HAUPT t.c.

Deuteragenia turneri Pondoland p. 368, *dregei* p. 369 (with var. n. *ferrugineipes*) Cape Colony, *chirindensis* p. 370, *bicolor* p. 371, S. Rhodesia, spp. n. figs., ARNOLD Ann. Transv. Mus. 15.—*D. thias* sp. n. Luzon p. 68, BANKS Proc. Amer. Acad. Arts Sci. 69.

Dinagenia gen. n., *apollo* sp. n. Philippines p. 66, BANKS t.c.

Dinosalius subgen. n. see *Monodon-tonyx*.

Elaphrosyrus gen. n. p. 120, HAUPT Mitt. zool. Mus. Berl. 15 1930.

Episyrus rubicundus p. 301, *obesus* p. 302, spp. n. Persia, GUSSAKOVSKII Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.—*E. bakeri* p. 87, *smithi* p. 88, *ashmeadi* p. 89, *saussurei* p. 91, *binghami* p. 92, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Eucavelia longicollis sp. n. Transvaal p. 388 figs., ARNOLD Ann. Transv. Mus. 15.

Ferreola clypealis p. 104, *violacea* p. 105, *tagalica* p. 106, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Gymnochares persimilis, *pulchellus* p. 100, *maculalis*, *orbitalis* p. 101, *tibialis* p. 102, spp. n. Philippines, BANKS t.c.

Hadropompilus gen. n. p. 397, *braunsi* sp. n. Algoa Bay p. 398 figs., ARNOLD Ann. Transv. Mus. 15.

Hemipepsis analis sp. n. New Guinea p. 1, HAUPT Bull. Mus. H. n. Belg. 9 1933 no. 47.—*H. croesus* p. 7, *bakeri* p. 9, *negritos*, *minora* p. 10, *excepta* p. 13, *luzonica* p. 14, *dubitans* p. 15, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Homonotus iwatai parthenogenesis p. 120, IIDA Mushi 7.—*H. tagalicus* (with var. n. *aliceps*), *rufipes* p. 110, *nebulosus* p. 111, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Hormopogonius gen. n., *tenuicornis* sp. n. (type) Nyasaland p. 379, *willowmorensis* Arn. from *Calicurgus* p. 380 figs., ARNOLD Ann. Transv. Mus. 15.

Lophagenia gen. n. for *Pseudagenia erigone* Bingh. p. 74, BANKS Proc. Amer. Acad. Arts Sci. 69.

Macromerella gen. n. for *Macromeris honesta* Smith (= *aureopilosa* Cam.) (type), *palawanensis* Lucas p. 32, BANKS t.c.

Macromeris honesta, *palawanensis* see *Macromerella*.

Masisia gen. n. p. 395, *longipalpis* sp. n. Belgian Congo p. 396 figs., ARNOLD Ann. Transv. Mus. 15.

Meragenia gen. n. for *Pseudagenia imitator* Ashm. p. 75; *rufithorax* p. 76, *nigripes* p. 77 spp. n. Luzon, BANKS Proc. Amer. Acad. Arts Sci. 69.

Micragenia gen. n., *calcarata* (type) Natal p. 286, *nubilipennis* Uganda p. 288, spp. n. figs., ARNOLD Ann. Transv. Mus. 15.

Minagenia subgen. n. see *Pseudagenia*.

Minotocyphus gen. n., *obesus* (type) p. 112, *gracilis* p. 113 spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Monodontonyx festivus p. 23, *approximatus* p. 24, *tagalensis* p. 25, *anomalous* p. 26 (*Dinosalius* subgen. n.) p. 27, *gratiosus* p. 30, spp. n. Philippines, BANKS t.c.

Morochares gen. n. p. 98, *fascipennis* sp. n. Philippines p. 99, BANKS t.c.

Mygymia semenovi sp. n. Persia p. 296, GUSSAKOVSKIĖ Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.—*M. anthracina*, *princeps* see *Parasalius*.

Narochares gen. n., *clavelina* sp. n. Samar I. p. 103, BANKS Proc. Amer. Acad. Arts Sci. 69.

Paraclavelia transvaalensis sp. n. Transvaal p. 388 fig., ARNOLD Ann. Transv. Mus. 15.

Parasalius gen. n. for *Mygymia anthracina* Smith (type) and *princeps* Smith; *plutonis*; sp. n. Singapore p. 21, BANKS Proc. Amer. Acad. Arts Sci. 69.

Paratrichosalius subgen. n. see *Trichosalius*.

Pedinaspis revision of Palaearctic spp. pp. 201–210 figs., GUSSAKOVSKIĖ Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.

Phanagenia gen. n. for *Pseudagenia bombycina* Cress. (type), *chrysosoma* Rohwer, *frauenfeldiana* Sauss., *banoensis* Roh., *callisto* Smith p. 78; *guerini*, *comes* p. 81, *negritos* p. 82 spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Platyderes partita (with var. n. *excepta*) p. 108, *extensa* p. 109, spp. n. Philippines, BANKS t.c.—*P. ruficollis* Guss. (= *dentatus* Guss.) p. 303, GUSSAKOVSKIĖ Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.

Poecilagenia braunsi Liberia p. 375, *nigeriensis* Nigeria p. 376, spp. n. figs., ARNOLD Ann. Transv. Mus. 15.

Pompilinus nigrilos sp. n. Luzon p. 96, BANKS Proc. Amer. Acad. Arts Sci. 69.

Pompiloides moestus ♂ p. 26 fig., HAUPT Boll. Lab. Ent. Bologna 6 1933.—*P.* of Rad. see *Anoplius*; of Haupt see *Aporinellus*.

Pompilus gistelanus n. n. for *annulatus* Gist. nec Dahlb. p. 98, STRAND Arch. Naturgesch. 82 1917 A5.—*P. viaticus* biology pp. 104–108, SCHÜTZE Ber. naturw. Ges. Isis Bautzen 1921–24.—*P. clotho* see *Anoplinellus*.

Prionemesis coriaceus new to Britain p. 114, distinguished from *perturbator* p. 115, RICHARDS Ent. mon. Mag. 70.—*P. cognatus* sp. n. Italy p. 175, HAUPT Boll. Lab. Ent. Bologna 6.—*P. aterrimus* Mariép Mts. p. 385, *meridionalis* Algoa Bay p. 386, spp. n. figs., ARNOLD Ann. Transv. Mus. 15.—*P. gomelza* sp. n. N. Carolina p. 43, BRIMLEY Ent. News 45.—*P. harpalyce* p. 34, (*Clistoderes* subgen. n.) *claggi* p. 35, *thione* p. 36, *niobe*, *astarte* p. 37, *ariel* p. 38, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.

Psammochares philippinensis sp. n. Luzon p. 92, BANKS t.c.—*P. teterrimus* ♂ p. 57; *kruegeri* Cyrenaica p. 62, *semifulvus* India p. 63, *inops* Morocco p. 64, *anubis* Egypt p. 71, *punicus* Algeria p. 72, *lucidipes* Liburnia Coast p. 75, *fumarius* Fiume p. 77, *subocellatus* Cuenza p. 69 spp. n.; *esau* f. n. *rufocincta* Spain p. 70 figs., HAUPT Boll. Lab. Ent. Bologna 6 1933.—*P. batazonoides* p. 297, *zarudnyi* p. 298, *helvenaceus* p. 299, spp. n. Persia, GUSSAKOVSKIĖ Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.

Pseudagenia alcidice, *ashmeadi* p. 44, *bakeri* p. 45, *circe*, *clotho* p. 48, *confra-terna*, *doralice* p. 49, *eurydice* p. 50 (with var. n. *nestor*), *hesione* p. 51, *ilione* p. 52, *innotata* p. 53, *marcia* p. 54, *morota* p. 55, *pardalice*, *persephone* p. 58, *pictoides* p. 59, *rizali* p. 60, *rohweri* p. 61, *tagalensis* p. 62 (*Minagenia* subgen. n.) *brevicornis* p. 64, spp. n. Philippines, BANKS Proc. Amer. Acad. Arts Sci. 69.—*P. regina* p. 295, *obesa* p. 300, *neavei* p. 307 Nyasaland, *picticornis* p. 297, *egregia* p. 325 Portuguese E. Africa, *planuscula* p. 301, *sylvicola* p. 303, *gowdeyi*, *ruficoxa* p. 312, *ugandensis* p. 328, *inepta* p. 340, *demissa* p. 353, *gemella* p. 362 Uganda, *pauperata* Algoa Bay p. 302, *aenescens* Sierra Leone p. 303, *vumbui* p. 304, *mazoensis* p. 306, *rubrirostris* S. Rhodesia (with var. n. *pondoensis* p. 309, *nigrostoma* p. 310 Pondoland), *pulchricoma* S. Rhodesia p. 314, *iridis* Ashanti p. 317, *circulifera* Lake Nyasa, *pumilo* Addo Bush p. 318, *vaga* S.W. Africa (with var. n. *sulcata* S. Africa, *pallidipennis* Zululand p. 322, *karrooensis* p. 323), *grata* Cape Colony, *jonesii* Zululand p. 324, *jacob* Bulawayo

p. 335, *femoralis* Natal p. 344, *nigeriensis* Nigeria p. 347 (with r. n. *kabaka* Uganda p. 348), *brownei* Brit. E. Africa, *maritima* Cape Colony p. 357, *hessei* Namaqualand p. 363, spp. n.; *spilotaeia* r. n. *nyasae* Nyasaland p. 209; *commendabilis* var. n. *bagandarum* p. 306; *laevigata* var. n. *calida* p. 361 Uganda; *rossi* var. n. *nigricornis* Algoa Bay p. 321; *sansibarica* rr. n. *longipennis* Tanganyika p. 330, *aureosericea* Nairobi p. 331; *hyalinata* var. n. *rufipalpis* Bulawayo p. 356 figs., ARNOLD Ann. Transv. Mus. 15.—*P. kloofensis*, *rubrozonata*, *rhodesiana* see *Cyemagenia*; *bombycina*, *chrysosoma*, *frauenfeldiana*, *bancoensis*, *callisto* see *Phanagenia*; *capensis* see *Spuridiophorus*; *imitator* see *Meragenia*; *erigone* see *Lophagenia*; *williamsi*, *aequina*, *ingenua*, *nasuta* see *Conagenia*.

Rhynchopompilus gen. n. p. 7, *cursor* sp. n. S. Rhodesia p. 8 figs., ARNOLD Occ. Pap. Rhodesian Mus. no. 3.

Ridestus gen. n. type *Psammochares transversalis* Bks. p. 223, BANKS J. N.Y. ent. Soc. 19 1911.

Salus madraspatanus see *Dentagenia*.

Sericopompilus bivittatus sp. n. Mindanao p. 97, BANKS Proc. Amer. Acad. Arts Sci. 69.

Spuridiophorus gen. n. for *Pseudagenia capensis* Brauns (type) p. 2; *inermis* sp. n. S. Rhodesia p. 4 figs., ARNOLD Occ. Pap. Rhodesian Mus. no. 3.

Tachypompilus bakeri sp. n. Luzon p. 86, BANKS Proc. Amer. Acad. Arts Sci. 69.

Tagalochares gen. n. p. 97, *plutonis* sp. n. Mindanao p. 98, BANKS t.c.

Telostegus sargadensis Persia p. 302, *apicalis*, *marginalis* Transcaspia p. 303, spp. n., GUSSAKOVSKI Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1933.

Trachyglyptus gen. n. for *Cryptosalus spinosipes* Turner p. 377 figs., ARNOLD Ann. Transv. Mus. 15.

Trichosalus gen. n. p. 390, *nitidiventris* (type) Algoa Bay p. 391, (*Paratrichosalus* subgen. n.) *flavipennis* p. 392, *obesus* p. 393, *johannis* p. 394 Natal, spp. n. figs., ARNOLD t.c.

Tumagenia gen. n., *iris* sp. n. Luzon p. 67, BANKS Proc. Amer. Acad. Arts Sci. 69.

Xanthampulex luzonensis var. n. *completus*; *divaricatus* p. 115, *intrusus* p. 116, spp. n. Philippines, BANKS t.c.

EUMENIDAE.

Eumenids of Yakutz, KOSTULEV Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1932 pp. 143-148.

Afrodynerus subgen. n. see *Odynerus*.

Alfiera gen. n. for *Eumenes anomalus* Zavatt. p. 436 figs., GIORDANI SOIKA Bull. Soc. ent. Egypte 28.

Alphamenes subgen. n. see *Eumenes*.

Ancistrocerus zairensis var. n. *ferrugineopetiolatus* p. 370; *parazairensis* sp. n. p. 371 Portuguese Guinea fig., GIORDANI SOIKA Ann. Mus. Genova 56.

Beteumenes subgen. n. see *Eumenes*.

Discoelius list of spp. of World p. 13, *esakii* Formosa p. 9, *manchurianus* S. Manchuria p. 11 spp. n. figs., YASUMATSU Mushi 7.

Eumenes of Japan p. 3-16, *formosanus* sp. n. Formosa p. 9 fig., TOSAWA Trans. Kansai ent. Soc. no. 5.—*E.* revision of S. American spp. pp. 109-122; *Alphamenes*, *Beteumenes*, *Paranortonia* subgen. n. p. 109, BERTONI Rev. Soc. cient. Paraguay 3.—*E. macrocephalus* ♀ p. 219; *bequaerti* sp. n. New Hebrides p. 221; *arcuatus* var. n. *simalurensis* p. 222, *maidli* p. 223 Sumatra; a. var. *zimmermanni* n. n. for a. *philippinensis* Zimm. nec Beq.; a. subsp. *andamanicus* ♂; *campaniformis* var. p. 227, var. n. *assatus* Queensland p. 224; *hottentotus* var. p. 228, var. n. *berlandi* Eritrea; *lepeletierii* Sauss. (= *formosus*) p. 226, GIORDANI SOIKA Mem. Soc. ent. ital. 12.—*E. gribodianus* n. n. for *gribodi* Guig. nec Zav. p. 366, GUIGLIA Ann. Mus. Genova 56 1933.—*E. lucasius* var. n. *inобрatus* Portuguese Guinea p. 369 56; (*Ischnogasteroides* characters), *flavus* redescription p. 85 57 figs., GIORDANI SOIKA Ann. Mus. Genova.—*E. anomalus* see *Alfiera*.

Hoplomerus spinipes morphology, biology pp. 151-190 figs., CHRISTENSEN Vidensk. Medd. naturh. Foren. Kbh. 97.

Ischnogasteroides a subgen. of *Eumenes*, q.v.

Odynerus of Japanese subregion (incl. Philippines) pp. 66-75, 91-102, *hoozanensis* Formosa, *momunganensis* Mindanao p. 68, *kankauensis* Formosa, Philippines p. 69, *sauteri* Formosa, *kolambuganensis*, *luzonensis* p. 70, *samarensis* (also Formosa) p. 73 Philippines, *ingens* p. 71, *taihorinensis*, *taihorinshoensis* p. 72, *unifasciatus* p. 75, *formosensis* p. 101, *kosempoensis* p. 102 Formosa, *bohollensis* p. 92, *duplofasciatus* p. 95, *duplostrigatus* p. 96, *chartergoides* p. 97, *lamaosensis* p. 98, *bannensis* p. 99 Philippines spp. n.; *flavopunctatus* var. n. *formosicola* Formosa p. 75 fig., SCHULTHESS Arb. morph. tax. Ent. Berl. 1.—*O. dentifer* sp. n. Poland p. 303, DROGOSZEWSKI Polsk. Pismo ent. 12.—*O. herricki* habits pp. 46-54, SPOONER Ent. mon. Mag. 70.—*O. gineri*, *ibizanus* spp. n. Balearic Is. p. 99, SCHULTHESS Mitt. schweiz ent. Ges. 16; also in Eos 10 pp. 149, 152.—*O. abreptus* p. 373, *proterrens* p. 376, *coenii* p. 379, *guigliae* p. 383 spp. n. Portuguese Guinea 56; monograph of Ethiopian spp. pp. 23-83, key to subgen. p. 25, *Afrodynerus* subgen. n., *monstruosus* p. 26, *maidli* p. 77 (with var. n. *luculentus* Fr. Congo) p. 78 Eritrea, *kolensis* p. 36, *auratipennis* p. 39, *lutra* p. 41, *indotatus* p. 45, *cereus* (also Rhodesia) p. 55, *benisoni* p. 58, *masarifformis* p. 79 E. Africa, *miserrimus* Rhodesia p. 48 spp. n.; *bairstowi* var. n. *militaris* Fr. Congo p. 36; *histrionimimus* var. n. *caudalis* Uganda, Mashonaland p. 42; *ferruginatus* var. n. *capensis* S. Africa p. 52; *corvus* var. n. *viridipennis* Congo p. 55; *meyeri* var. n. *expressus* E. Africa p. 71, *turneri* S. Africa p. 72; *patrizi* p. 73, *politiclypeus* p. 61, *testaceus* p. 75 ♂♂; *kelidopteris* ♀ p. 74 57 figs., GIORDANI SOIKA Ann. Mus. Genova.—*O. meyeri* var. n. *albolimbatus*; *truncatus* var. n. *lunicolor*; *schultzeanus* sp. n. Africa p. 57; *silaois* var. n. *asmarensis* Eritrea, *ukerewensis* E. Africa p. 63; *bisellatus* p. 64, *rikatensis*, *pulchripiloselloides*, *ferrugineus* p. 72 (with var. n. *mafiensis*), *politiclypeus*, *spinifer* p. 73 (with var. n. *maculatus* p. 74) spp. n. figs., SCHULTHESS Soc. ent. 29 1914.—*O. xanthomelas*, *funebri* characters p. 145, KOSTUTLEF Trav. Inst. zool. Acad. Sci. U.R.S.S. 1 1932.—*O. sarasini* sp. n. New Caledonia p. 50 fig., VON SCHULTHESS Nova Caledonia (A) Zool. 2 1915.—*O. schindleri* n. n. for *schulthessi* Guig. nec M.-W. p. 366, GUIGLIA Ann. Mus. Genova 56

1933.—*O. doursi* Sauss. (= *atratus* Bern.) new to France p. 61; *atratus* sp. n. France p. 307 fig., BERNARD Bull. Soc. ent. Fr. 39.

Paranortonia subgen. n. see *Eumenes*.

Pterochilus nitens sp. n. France p. 304 fig., BERNARD Bull. Soc. ent. Fr. 38.—*P. versicolor* sp. n. Belgian Congo p. 78 figs., SCHULTHESS Soc. ent. 29 1914.

Zeteumenes canaliculata f. n. *riojana* Argentina p. 110, BERTONI Rev. Soc. cient. Paraguay 3.

VESPIDAE.

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Myrmecorhynchus emeryi ♀ p. 41; *musgravei*, *carteri* p. 43, *nitidus* p. 44, *rufithorax* p. 46, spp. n. Australia figs., CLARK t.c.

Myrmelachista key p. 188, *skvarrae* p. 192 (with subsp. n. *picea* Mexico p. 194, *laeta*), *amicta* p. 195, *mexicana* p. 200 Vera Cruz, *costaricensis* Costa Rica p. 196, *guyanensis* p. 198, *donisthorpei* p. 204, *flavida* p. 205 Br. Guiana, *brevicornis* Brazil p. 199, spp. n.; *ramulorum* subsp. n. fortior Moña I. p. 189; *rogeri* var. n. *manni* Cuba p. 190; *schumannii* var. n. *cordincola* Bolivia p. 202; *zeledoni* ♂ Costa Rica p. 203 figs., WHEELER Bull. Mus. comp. Zool. Harv. 77.

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Cynipoidea.

CYNIPIDAE.

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Ichneumonoidea.

TRIGONALIDAE.

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Acanthojoppa praedatorius further description p. 140; *charlottae* Java p. 246, *maxima* p. 142 spp. n.; *brevispinosa* subsp. n. *latimodjongis* p. 143 Celebes figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Acerataspis n. n. for *Cerataspis* Uch. nec Gray (Mollusca) p. 23, UCHIDA Ins. mats. 9.

Aenoplex longicauda sp. n. Ontario p. 240, WALLEY Canad. Ent. 66.

Agarenes see *Losgna*.

Agrothereutes ephippium, *fulvipes* spp. n. Germany p. 141, RUDOW Int. ent. Z. 8 1914.

Anilasta groenlandica see *Angitia*.

Amblyjoppa brunneipennis subsp. n. *mengkoka* p. 85; *celebica* sp. n. p. 86 Celebes, HEINRICH Mitt. zool. Mus. Berl. 20.

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Anisobas celebensis p. 109, *maros* p. 110, spp. n. Celebes, HEINRICH Mitt. zool. Mus. Berl. 20.

Anisobichneumon gen. n. (Ichneumonini), *celebivagus* (type), p. 219 (with subsp. n. *australis*), *elephas* p. 220, *flavocingulatus* p. 221, spp. n. Celebes figs., HEINRICH t.c.

Anomaloctenus gen. n. (Paniscini) p. 4, *melleus* sp. n. India p. 5 fig., CUSHMAN Ind. For. Rec. 20 pt. 12.

Aphanodon luctuosus sp. n. Quebec p. 237, WALLEY Canad. Ent. 66.

Aptesis spectabilis sp. n. Germany p. 142, RUDOW Int. ent. Z. 8 1914.

Archboldiella gen. n. (Eurylabini) p. 132, *stresemanni* sp. n. Celebes p. 133 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Arotos sugiharai p. 46, *odontus* p. 47, spp. n. Japan figs., UCHIDA Ins. mats. 9.

Asphragis magnifica p. 85, *splendida* p. 86, *forticauda* p. 87, *elegans* p. 88 (with var. n. *areolata* p. 89), *annulata* p. 90, *juvenilis* p. 91, *tsavika* p. 92 (with var. n. *nigripleuris*, *nigriventris* p. 93), *senilis*, *infantilis* p. 94, *interrupta* p. 95, spp. n. Madagascar; *colorata* ♀ p. 85; *dubiosa* n. n. for *aciculata* Séy. nec Szélp. p. 96 figs., SÉYRIG Mém. Acad. malgache 19.

Atanyjoppa funebris (with subsp. n. *septentrionalis*) sp. n. Celebes p. 97 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Atractodes aterrimus ♀ p. 607, ROMAN Ann. Mag. n. H. (10) 14.

Autojoppa Cam. (= *Idiognathus* Cush.) p. 127, *spilocephala* subspp. n. *bonthainensis*, *matinangis*, *centralis* p. 128, *makassariensis* p. 129 Celebes figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Bambuscopus gen. n. for *Oedicephalus aureolus* Tosq. p. 119 (with subsp. n. *ornatiscutis* Java p. 244) fig., HEINRICH t.c.

Barichneumonites gen. n. (Ichneumonini) p. 214, *sphaeriscutellatus* p. 215 (with subsp. n. *mangkoka* p. 216), *manduris* p. 217, *funebri-color*, *longicornis*, p. 218, spp. n. Celebes fig., HEINRICH t.c.

Benyllus egregiscutellatus p. 158, *celebicus* p. 159 (with subsp. n. *bonthainensis*), *rufopictus* p. 160, *multicolor* p. 161, *nigrifacies* p. 162, spp. n. Celebes figs., HEINRICH t.c.

Bonthainia gen. n. p. 75, HEINRICH t.c.—See *Bonthainiella*.

Bonthainiella n. n. for *Bonthainia* Heinr. preocc. pp. 178, 263, *fasciata* (type) sp. n. Celebes p. 179 fig., HEINRICH t.c.

Caenocryptus key to Palaearctic spp. pp. 210-213, MEIER Konowia 13.

Caenojoppa Cam. (= *Elasmognathias* Ashm.) p. 122, *celebicola*, *caroni* spp. n. p. 124; *cephalotes* subsp. n. *celebensis* p. 125; *laminatus* subsp. n. *makassariensis* p. 126 Celebes figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Catastenus ocularis sp. n. Madagascar p. 103 figs., SÉYRIG Mém. Acad. malgache 19.

Celebarches gen. n. (Ichneumonini) p. 162, *unicus* sp. n. Celebes p. 163 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Celebichneumon gen. n. (Ichneumonini) p. 181, *wawakarensis* (type) p. 183, *silvaemontis*, *latimodjongis* p. 184 (with subsp. n. *mengkoka*), *striatus* p. 183 (with subsp. n. *annulatus*), *albifasciatus* p. 186, *egregius* p. 187, spp. n. Celebes figs., HEINRICH t.c.

Celebijoppa gen. n. (Ichneumonini) p. 187, *nigrocoerulea* p. 188, *albitarsis* p. 189, spp. n. Celebes fig., HEINRICH t.c.

Cerataspis gen. n. (Metopiinae) p. 275, *clavata* sp. n. Japan p. 276 figs., UCHIDA Trans. Sapporo n.H. Soc. 13. See *Acerataspis*.

Charitojoppa caerulea subsp. n. *celebensis* Celebes p. 111 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Chiaglas quadricolor sp. n. Celebes p. 174 fig., HEINRICH t.c.

Chorinaeus pubescens sp. n. Madagascar p. 33 figs., SÉYRIG Mém. Acad. malgache 19.

Clypeocava gen. n. (Ichneumonini), *celebica* sp. n. Celebes p. 177 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Cobunus australis sp. n. p. 100 (with subsp. n. *bonthainensis* p. 101) Celebes fig., HEINRICH t.c.

Coelichneumon caroni p. 89, *celebensis* p. 90 (with subspp. n. *tenuicinctus*, *matinangis*), *mengkoka* p. 91, *latimodjongis*, *bonthainensis*, *exephanopsis* p. 93, spp. n. Celebes, HEINRICH t.c.—*C. solutus* var. n. *occidentalis* E. Greenland p. 606, ROMAN Ann. Mag. n.H. (10) 14.

Coelojoppa see *Uchidia*.

Collyria calcitrator habits pp. 457–461, SALT Proc. roy. Soc. (B) 114.

Compsophorus Sauss. (= *Habrojoppa* Cam.) p. 112, *celebensis* p. 113, *nigripes* (with subsp. n. *javanensis* Java p. 244) p. 114, spp. n. Celebes fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Cratichtneumon robusticarpus, *hydrophilus* p. 234, *subdentatus* p. 235, *ignotus* p. 236, spp. n. Celebes fig., HEINRICH t.c.

Cratojoppa nigratarsis sp. n. p. 150 (with subsp. n. *bonthaina* p. 151) Celebes fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Cremastus hapaliae sp. n. India p. 7, CUSHMAN Ind. For. Rec. 20 pt. 12.—*C. boops* sp. n. Tanganyika, S.W. Africa p. 103, CUSHMAN Arb. morph. tax. Ent. Berl. 1.—*C. flavoorbitalis* morphology, bionomics 15 pp. figs., BRADLEY & BURGESS Tech. Bull. U.S. Dept. Agric. no. 441.

Cryptus key to Palaearctic spp. pp. 35–46, 203–210, *erythrogaster* n. n. for *rufiventris* Haberm. nec Szépl. p. 42, MEYER Konowia 13.—*C. sexannulatus* morphology, biology pp. 228–230 fig., ROSENBERG Bull. ent. Res. 25.

Ctenichneumon as subgen. n. of *Amblyteles* p. 2082, THOMSON Opusc. Ent. fasc. 19 1894.—*C. panzeri* subsp. n. *celebensis* Celebes p. 227, HEINRICH Mitt. zool. Mus. Berl. 20.

Ctenocharidea see *Maraces*.

Ctenonyx gen. n. (Pimplinae) p. 97, *superba* sp. n. Madagascar p. 98 figs., SÉYRIG Mém. Acad. malgache 19.

Cushmaniella gen. n. (Ichneumonini), *cryptiformis* sp. n. Celebes p. 172 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Cylindrocryptus gen. n. p. 50, *nitidus* sp. n. Spain p. 52 figs., CEBALLOS Bol. Soc. esp. H.n. 21 1921.

Dammermaniella gen. n. (Ichneumoninae) p. 249, *elegantula* (type) p. 250, *javanica* p. 251 spp. n. Java fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Dimaetha tibialis subsp. n. *celebensis* Celebes p. 83, HEINRICH t.c.

Dischizella gen. n. (Pimplinae), p. 74, *tricolor* sp. n. Madagascar p. 75 fig., SÉYRIG Mém. Acad. malgache 19.

Elasmognathias see *Caenojoppa*.

Encrateola n. n. for *Encrates* Först. nec Gist. p. 77, STRAND Arch. Naturgesch. 82 1917 A5.

Encrates see *Encrateola*.

Ephialtes chui sp. n. China p. 2, UCHIDA Ins. mats. 9.

E. krieckbaumeri n. n. for *geniculatus* Kriechb. nec Brischke pp. 12, 31, SCHMIEDEKNECHT Opusc. Ich. Suppl. 20.—*E. extensor* morphology, biology pp. 217–224 figs., ROSENBERG Bull. ent. Res. 25.

Erythrodolius speciosus sp. n.; *calamitosus* ♀ Madagascar p. 77, SÉYRIG Mém. Acad. malgache 19.

Euceros madecassus sp. n. Madagascar p. 24 figs., SÉYRIG t.c.

Euhesariarches gen. n. (Protichneumonini) p. 101, *celebensis* (type) (with subsp. n. *mengkokaë* p. 104) Celebes, *sexcinctus* (also p. 242), *insulindicus* (also p. 243) Java spp. n. p. 103 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Exenterus cingulatorius life-history p. 489 figs., SCHÖNWIESE Z. angew. Ent. 21.

Exetastes madecassus sp. n. Madagascar p. 99 fig., SÉYRIG Mém. Acad. malgache 19.

Exochus distribution, hosts Germany pp. 31-34, BAUER Mitt. ent. Ges. Halle 13.—*E. amicus* (with var. n. *ruficoxis*) p. 45, *frater* p. 46, *compar* p. 47, *passaventis* p. 48, *collaborator*, *protector* p. 49, *tutor* p. 50, *dominus* p. 51, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Facydes striolata subsp. n. *bonthainensis*, *celebensis* Celebes p. 83, HEINRICH Mitt. zool. Mus. Berl. 20.

Felargia see *Maraces*.

Gavrana tricolor (with subsp. n. *pancelebensis*), *latimodjongis* p. 230, *picta*, *nigricaput* p. 231 spp. n. Celebes fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Glypta exartemae p. 235, *infumata* p. 236, spp. n. Canada, WALLEY Canad. Ent. 66.—*G. cornea* var. n. *australis* Madagascar p. 79, SÉYRIG Mém. Acad. malgache 19.

Gnathoxys see *Stenodontus*.

Habrojoppa see *Compsophorus*.

Hemiteles wesmaellicida sp. n. England p. 34, ROMAN Stylops 3.—*H. kandaviensis* sp. n. Lettland p. 6 figs., OZOLS Folia zool. hydrobiol. 7.—*H. hemipterus* morphology, biology pp. 224-227, *macrurus* biology p. 227 figs., ROSENBERG Bull. ent. Res. 25.

Henicospilus fuscomaculatus subsp. n. *yakushimensis* Yakushima I. p. 67, YASUMATSU Mushi 7.

Heresiarches lieftincki (also p. 241), *felix* (also p. 240) Java p. 102, *bonthainensis*, *proximus* p. 105 Celebes, spp. n. figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Homotropus incisus (= *groenlandicus*) p. 610, ROMAN Ann. Mag. n. H. (10) 14.—*H. lugens* sp. n. Madagascar p. 64 figs., SÉYRIG Mém. Acad. malgache 19.

Hoplismenus lamprolabus morphology p. 445 fig., CEBALLOS Bol. Soc. esp. H. n. 34.

Ichneumon latimodjongis p. 225, *silvicola* p. 226, spp. n. Celebes fig., HEINRICH Mitt. zool. Mus. Berl. 20.—*I. peruncta* see *Validentia*.

Idiognathus see *Aulojoppa*.

Ileanta celebensis sp. n. Celebes p. 152 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Intermedichneumon subgen. n. see *Melanichneumon*.

Isadelphus clausus ♂ p. 34, ROMAN Stylops 3.

Labium relationships p. 205, *rufiscutum* p. 206, *raymenti* p. 207 spp. n. Australia, CUSHMAN Arb. morph. tax. Ent. Berl. 1.

Limnerium validum parasitic habits p. 460, SALT Proc. roy. Soc. (B) 114.

Lissosculpta subgen. n. see *Melanichneumon*.

Listrodromus simplex sp. n. Celebes p. 110, HEINRICH Mitt. zool. Mus. Berl. 20.

Longichneumon gen. n. (Ichneumonini) p. 169, *annaelisae* (type), *tricolor* p. 170 (with subsp. n. *moluccensis* Halmahera), *nitidus* p. 171, spp. n. Celebes fig., HEINRICH t.c.

Losgna Cam. (= *Agarenes* Cam.) p. 180, *ephippium* subsp. n. *matinangis* Celebes p. 181 figs., HEINRICH t.c.

Lycorina ranaivo sp. n. Madagascar p. 66, SÉYRIG Mém. Acad. malgache 19.

Maraces Cam. (= *Felargia* Cam., *Ctenocharidea* Cush.) p. 134; *flavobalteata* subsp. n. *celebensis* p. 136; *femoralis* subsp. n. *celebensis* p. 137 Celebes figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Matinangarches gen. n. (Ichneumonini), *bagus* sp. n. Celebes p. 168 fig., HEINRICH t.c.

Megarhyssa lunator morphology, egg deposition pp. 127-133 figs., ABBOTT J. N.Y. ent. Soc. 42.

Megastylus vagabundus p. 108, *solitarius* p. 109, spp. n. Madagascar fig., SÉYRIG Mém. Acad. malgache 19.

Melanichneumon characters p. 192, *Lissosculpta* p. 193, *Intermedichneumon*, *Menkokia* p. 194 subgen. n., key p. 195, *intermedius* p. 197, *celebensis* p. 199, *uruensis*, *irregularis* p. 201, *silvarum* p. 202, *quadricolor* p. 203, *simillimus*, *novickii* p. 204, *martinangis* p. 205 (with subsp. n. *wawoensis*), *acantho-joppopsis*, *simplicipes* p. 206 (with subsp. n. *central-celebensis*) p. 207, *stegemanni* p. 208, *minor*, *minorisimilis* p. 210, *major* p. 211, *insulindicus* p. 212, *tropicus*, *monticapitis* p. 213 Celebes, *curticornis* p. 253, *effigies* p. 254 Java spp. n.; *ocellus* subsp. n. *malaccensis* Singapore p. 208 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Menkokia subgen. n. see *Melanichneumon*.

Mesochorus indica sp. n. India p. 8, CUSHMAN Ind. For. Rec. 20 pt. 12.

Metopius insularis p. 27, *alluandi* p. 29, *sicheli* p. 30, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Micrandria gen. n. (Ichneumonini), *annaelsiae* (type) p. 154, *charlottae* p. 155, spp. n. Celebes figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Microcryptus subguttatus biology pp. 28-33 figs., DE FLUITER Levende Natuur 39.—*M. angustipetiolatus* sp. n. Lettland p. 4 figs., OZOLS Folia zool. hydrobiol. 7.—*M. abominator* morphology p. 230 fig., ROSENBERG Bull. ent. Res. 25.

Microtoridea secunda sp. n. India p. 1, CUSHMAN Ind. For. Rec. 20 pt. 12.

Monomacrodon gen. n. (Paniscini) p. 2, *bicolor* sp. n. China p. 3, CUSHMAN t.c.

Naenaria grandiceps subsp. n. *javanica* Java p. 239 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Neliopisthus decoratus (with var. n. *nigriventris*) p. 22, *mahombo* p. 23, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Nemeritis canescens flight and olfactory sense pp. 147-168 figs., VON STEIN-BELING Biol. Zbl. 54.

Neosprynchotus gen. n. (Cryptinae), *sphecephagus* sp. n. Paraguay p. 6, SCHROTTYK Soc. ent. 30 1915.

Nesostenodontus celebensis sp. n. Celebes p. 129 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

Nonpropodeum gen. n. (Ichneumonini) p. 152, *silvaemontis* sp. n. Celebes p. 153 fig., HEINRICH t.c.

Oedicephalus aureolus see *Bambuscopus*.

Orthocentrus rovensis p. 54, *urbanus* p. 55, *pulcher* p. 56, *immundus*, *mediocris* p. 58, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Paniscus virgatus ff. n. *odaiensis* Japan, Formosa p. 112, *nipponensis* Japan; *inaequalis* sp. n. Formosa p. 113; *cristatus* f. n. *yamatoensis* Japan, Kuriles p. 114 fig., UCHIDA Ins. mats. 8.

Pezolochus longicauda sp. n. Germany p. 142, RUDOW Int. ent. Z. 8 1914.

Pezomachus araneivorus, *araneicola*, *ruficeps*, *ephippium*, *stilatus*, spp. n. Germany p. 142, RUDOW t.c.

Phaenolobus radialis ♂ Madagascar p. 74, SÉYRIG Mém. Acad. malgache 19.

Phygadeuon sp. morphology, biology pp. 555-557 figs., WIESMANN Mitt. schweiz. ent. Ges. 15 1933.—*P. wiesmanni* sp. n. Germany p. 79 figs., SACHTLEBEN Abt. morph. tax. Ent. Berl. 1.

Phytodietus syzeuctinus ♀ Madagascar p. 67, SÉYRIG Mém. Acad. malgache 19.

Pimpla examinatrix, *turionellae* distinguishing characters pp. 205-206, SÉYRIG Bull. Soc. ent. Fr. 39.—*P. morleyi* n. n. for *gallicola* Morl. nec Gir. pp. 43, 118, SCHMIEDEKNECHT Opusc. Ichn. Suppl. 19, 20.

Platylabus subgen. n. *Tricholabus* p. 2102, THOMSON Opusc. Ent. fasc. 19 1894.—*P. celebensis* p. 130, *insulindicus* Celebes p. 131 (with subsp. n. *javanicus* p. 244), *lieftincki* Java p. 245, spp. n. Celebes, HEINRICH Mitt. zool. Mus. Berl. 20.

Poeciljoppoides gen. n. (Protichneumonini) p. 106, *sanfordi* sp. n. Celebes p. 107 fig., HEINRICH t.c.

Polysphincta pallipes p. 268, *percontatoria* p. 269 biology, KINEL Polsk. Pismo ent. 12.—*P. viatrix* ♀ Madagascar p. 68, SÉYRIG Mém. Acad. malgache 19.—*P. percontatoria* var. *gracilis* imaginal pigment pp. 144-151, pupal development p. 153 figs., NORDMAN Memor. Soc. Fauna Fl. fenn. 9.

Pristomerus vulnerator morphology, biology pp. 210–213 fig., ROSENBERG Bull. ent. Res. 25.—*P. laccae* sp. n. India p. 5, CUSHMAN Ind. For. Rec. 20 pt. 12.

Proclitus ligatus p. 105, *separatus* p. 106, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Pseudoplatylabus capitatus sp. n. Celebes p. 145, HEINRICH Mitt. zool. Mus. Berl. 20.

Pycnopyge cornuta sp. n. Celebes p. 121 figs., HEINRICH t.c.

R[h]yssolabus gen. n., BERTHOUMIEU Ann. Soc. ent. Fr. 63 1894 & 65 (1896) 1897 p. 306.

Setanta malinensis sp. n. Celebes p. 167 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Siphimedia rishiriensis sp. n. p. 51; *apicalis* ff. n. *yakushimensis*, *tosaensis* p. 53 Japan, UCHIDA Ins. mats. 9.—*S. albicornis* var. n. *nigriventris* Madagascar p. 74, SÉYRIG Mém. Acad. malgache 19.

Sjoestedtella fumipennis var. n. *montana*; *griseipennis* p. 79, *vitripennis* p. 80 spp. n. Madagascar, SÉYRIG t.c.

Spilichneumon subgen. n. see *Amblyteles*.

Spilocryptus incubitor morphology, biology pp. 231–232 fig., ROSENBERG Bull. ent. Res. 25.—*S. nubeculatus* life-history p. 492 figs., SCHÖNWIESE Z. angew. Ent. 21.

Stenarches gen. n. (*Acanthojoppini*) p. 143, *idiotes* sp. n. Celebes p. 144 figs., HEINRICH Mitt. zool. Mus. Berl. 20.

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Stirexephanes impictus sp. n. Celebes p. 228 fig., HEINRICH Mitt. zool. Mus. Berl. 20.

Stresemanniella gen. n. (*Ichneumonini*) p. 163, *bantimurungica* (type) p. 164, *montana*, *scotti* p. 165 (with subsp. n. *meridionalis* p. 166 Celebes, *sumatrana* Sumatra p. 248), spp. n. figs., HEINRICH t.c.

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Triclistus inimicus p. 36, *transfuga* p. 37, *hostis* p. 38, *rebellis* p. 39, *traditor* p. 40, *parasitus* p. 41, *latro* p. 42, spp. n. Madagascar figs., SÉYRIG Mém. Acad. malgache 19.

Uchidia n. n. for *Coelojoppa* Uchida nec Cam., *maxima* sp. n. Celebes p. 99, HEINRICH Mitt. zool. Mus. Berl. 20.

Ulesta plagiata sp. n. Celebes p. 175, HEINRICH t.c.

Validentia gen. n. (*Ichneumonini*) p. 221, *varilonga* (type) p. 222, *muscula* (with subsp. n. *javanica* Java p. 254) p. 223, *areolata* p. 225 spp. n.; *peruncta* Tosq. from *Ichneumon* (with subsp. n. *durica*) p. 224 figs., HEINRICH t.c.

Xanthophenax gen. n. fig. only Pl. 16 fig. 2, SAUSSURE in GRANDIDIER Hist. nat. Hym. 20 1892.—*X. pacificator* subsp. n. *montana* Madagascar p. 70, SÉYRIG Mém. Acad. malgache 19.

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Xenojoppa crassispina subsp. n. *celebensis* p. 115; *picta* p. 116 (with subsp. n. *mengkoka*), *minor* p. 117, spp. n. Celebes fig., HEINRICH Mitt. zool. Mus. Berl. 20.

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Aphidius janinii urites pp. 211-217 figs., GOIDANICH Boll. Lab. ent. Bologna 6.—*A. fabarum* biology pp. 163-166 figs., DRAGOUN Ber. Forschungsinst. čechoslov. Zuckerind. Prag 38.—*A. baudysi* sp. n. Czechoslovakia p. 10 fig., PÉREZ Eos 10.

Diaeretus croaticus sp. n. Czechoslovakia p. 8 figs., PÉREZ t.c.

Ephedrus nacheri sp. n. Czechoslovakia p. 17 fig., PÉREZ t.c.

Menozzia gen. n. *formicaria* sp. n. Italy p. 217, biology p. 227 figs., GOIDANICH Boll. Lab. Ent. Bologna 6.

Trioxys amoplanus sp. n. Czechoslovakia p. 13 fig., PÉREZ Eos 10.

BRACONIDAE.

Revision of Palaearctic Braconidae, FAHRINGER Opusc. brac. 3 Lief. 5-8 pp. 321-594 and xi, 1 pl.

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Braconidae from Formosa, WATANABE Ins. mats. 8 pp. 182-205, 6 figs.

Aniphiaulax subgen. n. see *Vipio*.

Apanteles thosae Sumatra p. 145, cacao p. 146, *nepitae* p. 149 Ceylon, *rugiceps* Assam p. 148, *cocotis* Java p. 152, *demeter* New Zealand p. 154 spp. n.; *bordagei* re-description p. 150; *ugandaensis* p. 146, *angustibasis* p. 154 ♂♂, WILKINSON Stylops 3.—*A. lacticolor* p. 360, *melanoscelus* p. 362, *solitarius* p. 364 biology, PROPER J. agric. Res. 48.—*A.* of Japan first suppl. pp. 132-143, host list p. 143, *vallatae* p. 132, *neptisis* p. 133, *kamiyai* p. 134, *amphipyrae* p. 135, *kawadai* p. 136, *bistonis* p. 137, *aphae* p. 138, *conopiae* p. 139, *uchidai* p. 140 spp. n. Japan; *consersae* Fiske (= *lateicolor* Son., Wat. nec Vier.) p. 141; *carpatas* Say (= *igae* Wat.) p. 142 fig., WATANABE Ins. mats. 8.

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Bracon idrianus sp. n. Idria p. 335, FAHRINGER Opusc. brac. 3 Lief. 5-8.—*B. kuro* p. 185, *koshunensis* p. 186, spp. n. fig., WATANABE Ins. mats. 8.—*B. tachardiae* developmental stages pp. 521-539 figs., GLOVER Bull. ent. Res. 25.

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Cenocoelius koshunensis sp. n. Formosa p. 203, WATANABE Ins. mats. 8.

Chelonella rufosignata further description p. 197 fig., WATANABE t.c.

Chelonus formosanus, *tabonus* further descriptions p. 196, WATANABE t.c.—*C. analipennis* Austria p. 434, *capsularis* China p. 476, spp. n., FAHRINGER Opusc. brac. 3 Lief. 5-8.

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Coeloreuteus formosanus sp. n. Formosa p. 188, WATANABE Ins. mats. 8.

Colastomion formosanum Watan. from *Cystomastax* p. 192, WATANABE t.c.

Cystomastax formosanum see *Colastomion*.

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Eucorystes formosanus sp. n. Formosa p. 191 fig., WATANABE Ins. mats. 8.

Eucrobracon of Japan pp. 19-23, *breviterebrae* sp. n. S. Manchuria, Japan p. 21 fig., WATANABE op. cit. 9.

Formicia obscuripennis sp. n. China p. 587, FAHRINGER Opusc. brac. 3 Lief. 5-8.

Glabriolum turkestanum sp. n. Turkestan p. 331, FAHRINGER t.c.

Gyroneuron testaceator sp. n. Formosa; mirum further description p. 193 fig., WATANABE Ins. mats. 8.

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Microgaster lepellei sp. n. Kenya p. 118, WILKINSON Stylops 3.

Microplitis demolitor sp. n. Australia p. 119, WILKINSON t.c.—*M. radicalis* see *Snellenius*; *bimaculatus* see *S. philippinensis*.

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Sbeitla gen. n. p. 82, *furax* sp. n. India, Philippines p. 83 figs., WILKINSON Stylops 3.

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Teraturus subgen. n. see *Vipio*.

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Celtiphaga n. n. for *Chlorippe* auct. type *Apatura celtis* Bdv. & Lec. p. 92, BARNES & LINDSEY Ann. ent. Soc. Amer. 15 1922. [Cf. *Asterocampa* Z.R. 63 1926 p. 246.]

Cethosia F. (= *Alazonia* Hb.) p. 37, HEMMING Entomologist 67.

Charaxes protoclea f. n. *sinuosa* Fr. Congo, Kamerun, subsp. n. *catenaria* p. 229; *catenaria* ff. n. *parcepecta*, *bifida* p. 230, *kafakumbana*, *mutschatschana*; *cynthia* subsp. *scabulosus* f. n. *aurantiaca* Belgian Congo, *angusticlavus* Fr. Congo p. 231; *smaragdalis* f. *leopoldi* ♀ p. 232; *nobilis* subsp. n. *rosamariae* p. 233; *nichetes* subsp. n. *pantherinus* p. 234 Belgian Congo figs., ROUSSEAU-DECELLE Bull. Soc. ent. Fr. 39.—*C. pythodoris* f. n. *pallida* Tanganyika p. 12, CARPENTER Proc. R. ent. Soc. Lond. 9.—*C. overlaeti* sp. n. Belgian Congo p. 123 figs., SCHOUTEDEN Rev. Zool. Bot. afr. 26.—*C. cognatus* ♀ 255 fig., FIEDLER Iris 28 1914.—*C. jasius* biology Mallorca p. 44, SCHULTZE Iris 48.

Chlorippe auct. see *Celtiphaga*.

Clossiana subgen. n. *Proclossiana* p. 69, REUSS Dtsch. ent. Z. 1926 1926.

Coenophlebia archidona subsp. n. *magnifica* Bolivia p. 66, FRUHSTORFER Soc. ent. 30 1915.

Colaenis see *Dryas*.

Corecalla Rüb. type *clymena* Cram. p. 85, HEMMING Gen. Names Holarctic Butterfl. 1934.—See *Diaethria*.

Cymothoe vumbui ♀; *alcimeda* r. n. *rhodesiae* S. Rhodesia p. 10 figs., STEVENSON Occ. Pap. Rhod. Mus. no. 3.

Cyrestis martinus resting position p. 203 fig., Van der MEER MOHR Trop. Natuur 20 1931.

Diaethria Billb. (= *Corecalla* Rüb.) p. 85, HEMMING Gen. Names Holarctic Butterfl. 1934.

Diagora Snell. (= *Parhestina* Mo.) (type *japonica* Feld. & Feld.) p. 143, HEMMING *Stylops* 3.

Dryas Hb. (= *Colaenis* Hb.) type *julia* F. not *liriope* Cram. p. 156, HEMMING *Entomologist* 67.

Euphydryas anicia rr. n. *hopfingeri* (with tr. f. n. *andersoni*) p. 128, *wheeleri* tr. f. n. *duncani*; *editha wrighti* tr. f. n. *thornei*; *e. lehmani* tr. f. n. *caverna* p. 129 U.S.A., GUNDER *Canad. Ent.* 66.

Euvanessa antiopa ab. n. *intermedia* Germany p. 98, MEZGER *Lambillionea* 34.

Euxanthe crossleyi subsp. n. *claudiae* Belgian Congo p. 228 fig., ROUSSEAU-DECELLE *Bull. Soc. ent. Fr.* 39; subsp. n. *radiata* Kamerun p. 53 fig., NIEFELT *Int. ent. Z.* 28.

Fabriciana subgen. n. *Profabriciana* p. 70, REUSS *Dtsch. ent. Z.* 1926 1926.

Heliconius Kluk (= *Laparus* Billb., *Migonitis* Hb.) p. 37, HEMMING *Entomologist* 67.

Hypolimnas bolina jaluita ab. n. *nanshini* p. 35 (no. 4 1933), abb. n. *marshallensis* p. 25, *ebonensis* p. 26 (no. 5) Marshall Is. figs., HIROSE *Trans. Kansai ent. Soc.*

Junonia westermanni f. n. *nigricans* Kenya p. 2, STONEHAM *Bull. Stoneham Mus.* no. 20.

Laparus type designated *doris* L. p. 37, HEMMING *Entomologist* 67.—See *Heliconius*.

Limenitis camilla ab. n. *bifasciata* Switzerland p. 144, NIEFELT *Int. ent. Z.* 8 1914.

Melitaea Spanish ff. of *athalia* group pp. 99–122; *dejone* ab. n. *royoi* p. 107; *parthenie* ab. n. *escalerai* p. 114; *diamina* ab. n. *luciferina* p. 116 Spain figs., AGENJO *Eos* 9.—*M. arcesia* subsp. n. *rucephala* Chingan, *carmana* Sajon; *protomedia* subsp. n. *regama* W. China p. 58, FRUHSTORFER *Soc. ent.* 30 1915.—*M. iduna* subsp. n. *inexpectata* N. Caucasus p. 20, SHELJUZHKO *Z. öst. EntVer.* 19.—*M. didyma* ab. n. *nigralba* Hautes Alpes p. 150 fig., FEBVAY du COUEDIC *Lambillionea* 34.—*M. varia* M.-D. a sp., distribution

pp. 97–99, ZINGG *Mitt. schweiz. ent. Ges.* 16.—*M. aurinia* ab. n. *flavo-fasciata* Belgium p. 126, HACKRAY *Lambillionea* 34.—*M. phoebe* ab. n. *fasciata* Austria p. 2 figs., GALVAGNI *Z. öst. EntVer.* 19.—*M. sterope* Edw. (= *hevesi* Leuss.) p. 130, tr. f. n. *hopfingeri* Washington p. 129, GUNDER *Canad. Ent.* 66.—*M. tauricus* N. Syria p. 109, *montium* p. 107 spp. n.; *deserticola* subsp. n. *macromaculata*; *didyma* subsp. n. *libanotica* p. 106 N. Lebanon, *variabilis* Brusa etc. p. 108 figs., BELTER *Arb. morph. tax. Ent. Berl.* 1.—*M. cinxia* subsp. *deva* n. n. for *cinxia* f. *sicula* Rag. nec *athalia* f. *sicula* Turati; *asteroidea* subsp. *evadne* n. n. for a. var. *pallida* Stgr. nec *pallida* Edw. p. 98; *anastasia* n. n. for *beckeri* Godm. & Salv. nec *artemis* var. *beckeri* H.-S. p. 193, HEMMING *Stylops* 3.

Mesoacidalia subgen. n. see *Acidalia*.

Mesodryas gen. n., type *paphia* L. p. 435, REUSS *Dtsch. ent. Z.* 1926 1927.

Migonitis see *Heliconius*.

Morpheus ehrenbergii morphology pp. 259–267 figs., VAZQUEZ *An. Inst. Biol. Mexico* 5

Neoacidalia subgen. n. see *Acidalia*.

Nymphalis Feld. type designated *astyanax* F. p. 37, HEMMING *Entomologist* 67.—See *Basilarchia*.

Palla decius f. n. *sagittaria* Belgian Congo p. 235, ROUSSEAU-DECELLE *Bull. Soc. ent. Fr.* 39.

Panacea regina subsp. n. *victrix*; *prola* subsp. n. *prolifera* Ecuador, *amazonica* Amazons; *procilla* subsp. n. *salacia* Colombia p. 66, FRUHSTORFER *Soc. ent.* 30 1915.

Pareba vesta morphology, biology, pp. 184–188, figs., LEEFMANS *Trop. Natuur* 21 1932.

Parhestina see *Diagora*.

Phanopeltis gen. n. p. 84, MABILLE *Hist. phys. nat. polit. Madagascar* 18 Lep. 1 1887.

Phyciodes gorgone tr. f. n. *thornei* California p. 130, GUNDER *Canad. Ent.* 66.—*P. nycteis* tr. f. n. *greyi* Kansas p. 256, FIELD *Canad. Ent.* 66.

Polygonia c-album f. n. *obscura* Germany p. 115, HANNEMANN *Int. ent. Z.* 9 1915.

Precis sophia f. n. *nigeria* Kenya p. 1, STONEHAM Bull. Stoneham Mus. no. 20.

Prepona habits pp. 228-230, SHELDON Entomologist 67.

Proacidalia subgen. n. see *Acidalia*.

Procllossiana subgen. n. see *Clossiana*.

Profabriciana subgen. n. see *Fabriciana*.

Pyrameis limenitoides subsp. n. *unholtzi* Kansu p. 16, BANG-HAAS Ent. Z. 48.

Pyrrhanaea gen. n. type *troglodyta* F. p. 170, SCHATZ in STAUDINGER & SCHATZ Exot. Schmett. 2 1892.

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Vagrans gen. n. for *Papilio egista* Cram. p. 77, HEMMING Entomologist 67.

Vanessa urticae f. n. *rosea* Germany p. 115, HANNEMANN Int. ent. Z. 9 1915.—*V. io* abb. n. *lacteus*, *silaceus* Germany p. 74, BANDEMANN Ent. Jb. 1935 1934.

Vindula gen. n. for *Papilio arsinoe* Cram. p. 77, HEMMING Entomologist 67.

LIBYTHEIDAE.

Libythea celtis celtoides wing patterns [in Japanese] p. 87 figs., HIROSE Zephyrus 5.

ERYCINIDAE (RIODINIDAE).

Archigenes gen. n., type *aita* Nicév. p. 748, FRUHSTORFER in SEITZ 9 1914.

Audre gen. n. for *Hamearis* Stich. nec Hb. type *epulus* Cram. p. 157, HEMMING Entomologist 67.

Calephelis auct. see *Lephelisca*.

Hamearis Stich. nec Hb. see *Audre*.

Helicopsis F. (= *Rusticus* Hb.) p. 157, HEMMING Entomologist 67.

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Polycaena tamerlana subsp. n. *banghaasi* Tianshan p. 61, FRUHSTORFER Soc. ent. 30 1915.

Rusticus Hb. type *gnidus* F. p. 156, HEMMING Entomologist 67.—See *Helicopsis*.

LYCAENIDAE.

Australian Lycaenidae, VII, WATERHOUSE Proc. Linn. Soc. N.S.W. 59 pp. 416-420.

Agriades glandon marlene n. n. for *orbitulus astorica* Tytl. nec EVANS p. 193, HEMMING Stylops 3.

Amblopala avidiena subsp. n. *astrape*, *pherenice* China p. 63, FRUHSTORFER Soc. ent. 30 1915.

Amblypodia courvoisieri sp. n. Ceram p. 335 fig., RIBBE Iris 13 1901.—*A. democritus* F. (= *albopunctata* Hew.) p. 60, CORBET Entomologist 67.

Archopala hercules subsp. n. *stymphelus* Halmahera p. 155, *phalaereus* Jappen I.; *tyrannus* subsp. n. *sophilus* Obi Is., *afraanius* New Guinea; *thamyras* subsp. n. *potidaea* Obi Is. p. 156, *teruthrone*, *zelea* New Guinea, *calauveia* Misol; *fulla* subsp. n. *prasiä* Amboina; *canulia* subsp. n. *sostias* Obi Is.; *centaurus* subsp. n. *centenitus* Batu Is. p. 157, *cervidius* Borneo; *amytis* subsp. n. *leptines* Kei Is., *androtion* Yule I., *selymbria* Waigeu p. 158; *meander* subsp. n. *gazella* New Pomerania, *anicius* Solomon Is., *madytus* Queensland p. 159; *aexone* subsp. n. *herana*, *natanda* New Guinea, *chrysoana* Halmahera; *amantes* subsp. n. *aphobus* Java p. 160, *onotor* Savu, *verelius* Kalao-Tua I., *grandiosa* Celebes; *camdeo* subsp. n. *varro* Tenasserim p. 161, *sphendale* Annam; *anthelus* subsp. n. *jabadia* Java, *majestatis* Nias I., *sotades* Mindanao p. 163; *nobilis* subsp. n. *ajusa* Halmahera p. 164, *nobilior* Obi Is.; *agnis* subsp. n. *soter* Sumatra, *hagius* Java, *sphetyis* Nias I. p. 165; *alkisthenes*, *cidona* New Guinea p. 159, *hellada* Nias I. p. 165 (with subsp. n. *ozana* Sumatra p. 166), spp. n., 27 1914; *eumolphus* subsp. n. *tagore* Assam, *caesarion*, *siroes* Sumatra p. 122, *sanherib* Java p. 123, *caesetius* Borneo, *aristomachus* Palawan; *horsfieldi* subsp. n. Tenasserim, *herodianus* Sumatra, *vellanus* Java, *leokrates* Borneo; *apidanus* subsp. n. *xisuthrus* Nias I. p. 126, *arakat* Bawean I., *antipaxas* Java, *comes* Lombok I., *kartaophilus* Malay Penin. p. 127, *phalakron*

Sumatra, *viribus*, *berossus* Borneo, *iriya*, *himna* Mindanao p. 128; *fulgida* subspp. n. *zohar* Borneo, *tenea* Java, *tifata* p. 129; *anniella* subspp. n. *husaina* Sumatra; *asoka* subspp. n. *vaya* Hong-Kong; *abseus* subspp. n. *oghatinna* Mindanao p. 130, *nava* Borneo; *bazalus* subspp. n. *nebenius* Sumatra, *pratinnas*, *diardi* subspp. n. *asatha* Java p. 131, *amha* Borneo, *imperiola* Celebes, *almansor* Malay Penin. p. 132; *phaenops* subspp. n. *termion* Mindanao p. 133; *adatha* subspp. n. *sostrata* Celebes; *malayica* subspp. n. *fundania*; *azata* subspp. n. *pangeran* Java p. 135; *eupolis* subspp. n. *phyltron* Yule I.; *mindanensis* subspp. n. *zilensis* Mindanao; *morphina* subspp. n. *sindicina* Sumatra; *sandakani* subspp. n. *aytonia* Java; *ammon* subspp. n. *chunsu* Sumatra, *hammon* Java; *birmana* subspp. n. *corthatha* Hong-Kong p. 137; *elagabulus* New Guinea p. 124, *sacharja* Annam p. 133, *irma* Ōbi Is. p. 134 spp. n. 28 1914, FRUHSTORFER Iris.

Aricia medon ab. *snelleni* Haar (= ab. *albiannulata* Harrison) p. 89, LEMPKE Ent. Rec. 46.—*A. agestis* range of variation pp. 117–121, CARTER Vasculum 20.

Atlides halesus tr. f. n. *corcorani* California p. 131, GUNDER Canad. Ent. 66.

Caleta subgen. n. see *Castalius*.

Castalius subgen. n. *Caleta* p. 890, FRUHSTORFER in SEITZ 9 1923.

Chrysophanus ♂ genitalia of Centr. European spp. pp. 107–115 figs., SOKOLOV Rev. Ent. U.R.S.S. 25 1933.—*C. solskyi* f. n. *fulmineus* Karakoram Mts. p. 195, TURATI Atti Soc. ital. Sci. nat. 72 1933.—*C. phlaeas* biology in captivity p. 88, ROMETSCH Ent. Z. 48.

Cupido felthami sp. n. S. Africa p. 16, STEVENSON Occ. Pap. Rhod. Mus. no. 3.—*C. sebrus* f. n. *majuspunctata* Anatolia sep. p. 34, VERITY Ent. Rec. 46.—*C. atroguttata* subspp. n. *kremalis* Formosa p. 54, NIEFELT Int. ent. Z. 28.

Cyaniriodes gen. n. type *Logania andersonii* Moore p. 33, DE NICÉVILLE Butterflies of India 3 1890.

Cyclyrius gen. n. type *Polyommatus webbianus* p. 830, BUTLER Proc. zool. Soc. Lond. 1896.

Deloneura sheppardi sp. n. S. Rhodesia p. 15 figs., STEVENSON Occ. Pap. Rhod. Mus. no. 3.

Deudorix epijarbas subspp. n. *dido* Australia p. 419, WATERHOUSE Proc. Linn. Soc. N.S.W. 59.—*D. ceramensis* sp. n. Ceram p. 336 fig., RIBBE Iris 13 1901.

Epitola crippsi sp. n. Kenya p. 1 figs., STONEHAM Bull. Stoneham Mus. no. 17 1933.

Everes ion subspp. n. *cratylus* Szetchuan p. 73, FRUHSTORFER Soc. ent. 30 1915.—*E. argiades seitzi* Wnuk. (= var. *amurensis* Heyne) p. 193, HEMMING Stylops 3.—*E. alcetas* rr. n. *antealcetas* Martigny, *dilutior* Italy sep. p. 34, VERITY Ent. Rec. 46.—*E. trilliola* see *Zizula*.

Glaucopsyche alexis subspp. *selene* n. n. for a. f. *alpina* Tur. & Ver. nec *argus* var. *alpina* Berce p. 98; *alexis maritimalpium* Ver. (= a. *selene* Hemm.) p. 194, HEMMING Stylops 3.

Heodes dispar subspp. *rutilus* f. *vernalis* abb. n. *brunnea*, *punctata* Germany p. 98, MEZGER Lambillionea 34.

Hypochrysops Feld. type *polycletus* L.; *elgneri* subspp. n. *barnardi* Australia p. 416, WATERHOUSE Proc. Linn. Soc. N.S.W. 59.

Hyrcanana gen. n. type *Heodes caspius* Ld. pp. 135, 163, BETHUNE-BAKER Ent. Rec. 26 1914.

Incisalia lanoraieensis sp. n. Canada p. 141, SHEPPARD Canad. Ent. 66.

Iolana gen. n. type *iolas* Ochs., scope p. 162, BETHUNE-BAKER Ent. Rec. 26 1914.

Iolus katananus sp. n. Belgian Congo p. 141 figs., ROMIEUX Mitt. schweiz. ent. Ges. 16.

Itylos grata sp. n. Argentina p. 39 figs., KÖHLER Rev. Soc. ent. argent. 6.

Lampides boeticus ab. n. *kawachensis* Japan p. 36 fig., HIROSE Trans. Kansai ent. Soc. no. 4 1933.

Liptena rubromaculata f. n. *jacksoni* Uganda p. 12, CARPENTER Proc. R. ent. Soc. Lond. 9.

Lycaeides argyrognomon geographical varr. pp. 99-123, abb. n. *gazeli* p. 108, *proxarmoricana*, *proxargyrognomon* p. 109 France, *pseudarmoricana* Germany p. 111, *armoricana* Lettonie p. 113, *lycidasoides* Bavaria p. 118, *rauraca* p. 119, *postrauraca* p. 120 Argovie, *stempfferschmidtii* Transsylvania p. 121; *a. armoricanoidea* n. n. for *a. pseudarmoricana* Beur. nec Heyd. p. 127 figs., BEURET Lambillionea 34.—*L. ismenias* subsp. *letitia* n. n. for *argus* var. *ligurica* Obth. nec *arion* var. *ligurica* Wagn. p. 98; *argyrognomon baldur* n. n. for *a. balcanica* Zull. nec Freyer p. 193, HEMMING Stylops 3.

Lycaena synonymy of genus pp. 143-229, COURVOISIER Iris 28 1914.—*L. arion* subsp. n. *eutyphron* England p. 67, *aglaophon* Pyrenees, *tainaron* Tschieboz, *taras* Monte Aurunci, *sosinomos* Tian Shan, *nepete* Kansu, *philidor* Mongolia p. 68; *lucifera* subsp. n. *lucifuga* Szetchuan; *pheretides* subsp. n. *philebus* Kashgar; *donzelii* subsp. n. *borsippa* Kentei, *bittis* Altai p. 73, FRUHSTORFER Soc. ent. 30 1915.—*L. corydon* not an Irish insect p. 73, C. E. B. Irish Nat. J. 5.—*L. meleager* ab. n. *cyanogyne* Germany p. 85 figs., HÖRHAMMER Int. ent. Z. 28.—*L. hippothoe* f. *memphis* n. n. for *h. f. obscura* Courv. nec *amphidamas* f. *obscura* Rühl p. 98, HEMMING Stylops 3.—*L. cramera* f. *minusornata* ab. n. *ardanazi* p. 315; *thersites* ab. n. *casildae* p. 316 Spain figs., AGENJO Eos 9.—*L. alcon* habits, food-plants p. 123, DUPONT Lambillionea 34.—*L. coridon* subsp. n. *jachontovi*; *orion* subsp. n. *johanseni* Russia p. 111, WNUKOWSKY Ent. Anz. 14.—*L. arion* *ussuriensis* ab. n. *hirenobui* Corea p. 168 figs., SUGITANI Zephyrus 5.—*L. loewii* subsp. n. *dzhemagate* p. 31; *teberdina* sp. n. p. 39 N. Caucasus, SHELJUZHKO Z. öst. EntVer. 19.—*L. icarus* f. n. *girschitschi* Tunisia p. 45, SCHNEUR Ent. Z. 48.

Lycaenopsis argiolus ab. n. *anteatrata* France p. 151, MEZGER Lambillionea 34.—*L. filipjevi* sp. n. Ussuri p. 85 figs., RILEY Entomologist 67.

Lysandra thesites f. n. *posttheristes* sep. p. 27; *argester* f. n. *postargester*, *parvaplumbea*, *anteparvaplumbea*, *postenervis* Rhone Valley sep. p. 29; *bellargus* r. n. *antebritannorum* England, *antecaelestis* France sep. p. 30, VERITY Ent. Rec. 46.

Marmessus ravindra subsp. n. *sumptuosa* Java p. 421, TOXOPEUS Hand. ned.-ind. natuurw. Congr. 6 1931.

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Nacaduba ancyræ subsp. n. *halys* Australia p. 416, WATERHOUSE Proc. Linn. Soc. N.S.W. 59.

Ogyris amaryllis subsp. n. *amata* p. 417; *olane* subsp. n. *ocella* p. 419 Australia, WATERHOUSE t.c.

Palaeoloweia tityrus rr. n. *pallidepicta* sep. p. 16, *praebleusei* p. 17 Rhone Valley, VERITY Ent. Rec. 46.

Plebejus cleopatra sp. n. Palestine p. 30, HEMMING Entomologist 67.

Pseudochliaria gen. n., *virgoides* sp. n. India p. 139 figs., TYTLER J. Bombay n.H. Soc. 24 1915.

Ruralis gen. n. p. 130, TUTT Ent. Rec. 18 1906.—See *Thecla*.

Scolitantides orion var. *athene* n. n. for o. var. *ornata* Stgr. nec *astrarche* ab. *ornata* Stgr. p. 98, HEMMING Stylops 3.

Strymon aetorum *spadix* early stages p. 79 figs., COMSTOCK & DAMMERS Bull. S. Calif. Acad. Sci. 33.—*S. ontario* in Missouri p. 212, O'BYRNE Ent. News 45.

Stugeta olalae sp. n. Kenya p. 2, STONEHAM Bull. Stoneham Mus. no. 17 1933.

Thecla F. (= *Ruralis* Tutt) p. 115, HEMMING Gen. Names Hol. Butterfl. 1934.—*T. quercus* var. n. *violacea* Magdeburg p. 144, NIEPALT Int. ent. Z. 8 1914.—*T. ilicis* ab. n. *aurea* Tyrol p. 178, STAUDER Int. ent. Z. 8 1914.—*T. aegides* f. n. *sylvana* p. 60; *confusa*, *arenicola* spp. n. p. 61 Argentina, JÖRGENSEN Iris 48.

Thersamon gen. n. type *Papilio thersamon* Esp. and others p. 28, VERITY Ent. Rec. 31 1919.

Thestor ballus ab. n. *concolor* Spain p. 314 figs., AGENJO Eos 9.

Thysonotis caeli subsp. n. *synesius* Sula I. p. 42; *aetius* New Guinea p. 43; *cyanea* subsp. n. *obiana* Obi I., *arinides* New Guinea p. 44; *wallacei* subsp. n. *hermogenes* Mysol, *metrophanes*, *zainis*; *peri* subsp. n. *valestinax* p. 49, *oribasius*; *melimnos*

subsp. n. *athanetus*, *scarpheia* New Guinea; *danis* subsp. n. *sophron* Buru, *philocrates* Obi, *panatius*, *herophilus* p. 50, *anaximenes*, *proedrus* New Guinea, *phoibides* Mefor I., *reverdini* Cape York p. 51; *schaeffera* subsp. n. *soranus* Halmahera p. 52 figs., FRUHSTORFER Soc. ent. 30 1915.

Vacciniina optilete subsp. *medea* n. n. for o. f. *uralensis* Seitz nec *arion* var. *uralensis* Elwes p. 98, HEMMING Stylops 3.

Waigeum makrikii sp. n. Ceram p. 336 fig., RIBBE Iris 13 1901.

Zephyrus spp. of Japan, Corea and Formosa pp. 74-86, 194-212; *ibara* ab. n. *akio* Japan p. 201 figs. [in Japanese], ESAKI *Zephyrus* 5.—*Z. buileri* ab. n. *daisena* Japan p. 35 fig., HIROSE Trans. Kansai ent. Soc. no. 4 1933.

Zizula tulliola Godm. from Evers, *gaika* characters pp. 325-328 figs., STEMPFFER Bull. Soc. ent. Fr. 38.

PIERIDAE.

Catalogue of Pieridae, II, TALBOT Lep. Cat. no. 60 pp. 321-384.

Aphrodite Hb. type *eborea* Stoll p. 38, HEMMING Entomologist 67.—See *Colotis*.

Ascia josephina God. (= *amaryllis* F. nec Stoll) p. 194, HEMMING Stylops 3.

Catopsilia rurina ab. n. *impurpurissata* Ecuador p. 144, NIEPALT Int. ent. Z. 8 1914.

Colias eogene subsp. n. *ericae* Kashmir p. 431, PESCHKE Int. ent. Z. 28.—*C. myrmidone* & ab. *alba* colour p. 79; *hyale* third generation p. 111 fig., GÖNNER Ent. Z. 48.—*C. palaeno* var. *europone* f. *belga* variation p. 190, DERENNE Lambillionea 34; early stages pp. 239-243, BEAUFAYS Lambillionea 34.—*C. palaeno* ab. n. *aurantiaca* Belgium p. 193, HACKRAY Lambillionea 34.—*C. hyale* f. *meridionalis* status discussed pp. 262-267, OBRAZTSOV Polsk. Pismo ent. 12.—*C. phicomene* ab. n. *incompleta* Switzerland p. 54, MEZGER Lambillionea 34.—*C. hyale* f. n. *macropuncta* p. 393, *submarginata*, *nigriformis* p. 394 Germany, FINKE Int. ent. Z. 28.—*C. aurora* subsp. n. *thia* Kansu p. 109,

BANG-HAAS Ent. Z. 48.—*C. hecla* subsp. *palamedes* n. n. for h. var. *pallida* Skinn. nec *erate* ab. *pallida* Stgr. p. 98; *heos* Herbst (= *aurora* Esp. nec Cram.) p. 194, HEMMING Stylops 3.

Colotis Hb. (= *Aphrodite* Hb.) p. 38, HEMMING Entomologist 67.

Delias bornemanni, *neyi*, *katharina*, *kummeri* p. 308, *weiskei*, *hartertii* p. 329, *itamputi*, *niepelti* p. 330, spp. n. New Guinea (some figs. in Iris 13 1901 pp. 339-340), RIBBE Insekten-Börse 17 1900.

Dismorphia limnorina subsp. n. *hoffmanni*; *melite* f. *melite* further description p. 301, subsp. n. *liberata*; *m. clarissa* abb. n. *simulatrix*, *flavescens* p. 302 Brazil, d'ALMEIDA Bull. Soc. ent. Fr. 38.

Euchloë cardamines subsp. *sheldoni* n. n. for c. var. *volgensis* Sheld. nec *ausonia* var. *volgensis* Krul. p. 98, HEMMING Stylops 3.—*E. simplonia* Fr., *ausonia* Hb. synonymy p. 225, HIGGINS Entomologist 67.—*E. falloui* biology, morphology, systematic notes pp. 229-235, STAUDER Iris 28 1914.—*E. belemia* f. n. *marmorata* Tunisia p. 43 fig., SCHNEEUR Ent. Z. 48.

Eurema dina subsp. n. *helios* p. 133; *chamberlaini* subsp. n. *mariguanae* p. 135 Bahamas figs., BATES Occ. Pap. Boston Soc. n. H. 8.

Eurymus meadii f. n. *medi* Colorado p. 125, GUNDER Canad. Ent. 66.

Gonepteryx rhamni abb. n. *inversa*, *pallida* Germany p. 113, HANNEMANN Int. ent. Z. 9 1915; f. n. *sulphurea* Kashmir p. 431, PESCHKE Int. ent. Z. 28.

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Mesapia peloria subsp. n. *leechi* Szetschuan, *grayi* Kansu p. 16, BANG-HAAS Ent. Z. 48.

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Pontia daphidice davendra n. n. for d. *orientalis* Kard. nec Alph. p. 194, HEMMING Stylops 3.

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Tachyris aroa, weiskei spp. n. New Guinea p. 330, RIBBE Insekten-Börse 17 1900.

Teracolus chrysonome subsp. n. *meinertzhageni* Ahaggar Mts. p. 178, RILEY Ann. Mag. n. H. (10) 13.

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Allancastris Bryk & Eise. an invalid genus p. 144, HEMMING Stylops 3.

Armandia see *Bhutanitis*.

Bhutanitis Atkinson (= *Armandia* Blanch.) type *lidderdalii* Atk. p. 144, HEMMING Stylops 3.

Chilasa Moore (= *Clytia* Swains. nec Lam.) p. 145, HEMMING Gen. Names Holarctic Butterfl. 1934.

Clytia see *Chilasa*.

Iphiclides mandarinus subsp. *paphus* de Nic. (= *glycerion* Gray nec Borkh.) p. 195, HEMMING Stylops 3.

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Meandrusa sciron Leech (= *hercules* Blanch. nec Dalm., *porus* Streck.), s. subsp. *lachinus* Fruhs. (= *gyas* Westw. nec Cram.) p. 196, HEMMING Stylops 3.

Ornithoptera victoriae rubianus aberration p. 144, DICKSEE Proc. R. ent. Soc. Lond. 8.

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Nigeria, adults, eggs, larvae, pupae pp. 12-17 figs., [ANON.] Nigerian Field 1933 no. 6.—*P. machaon* early stages pp. 246-248, FONTAINE Lambillionea 34; ab. n. *brevis* Switzerland p. 55, MEZGER Lambillionea 34; subsp. n. *sculda* Kashmir p. 430, PESCHKE Int. ent. Z. 28; f. n. *caeca* Germany p. 63, CLOSS Int. ent. Z. 10 1916; f. n. *chrysostoma* Tunisia p. 41 fig., SCHNEUR Ent. Z. 48; var. *asiatica* f. n. *pseudoasiatica* Libya p. 145 figs., BETZ Amat. Papill. 7.—*P. machaon* subsp. n. *chitralensis* Kashmir p. 178; *agestor* ab. n. Szechuan p. 179, BANG-HAAS Ent. Z. 47.—*P. machaon* var. *alaska* Scud. (= *petersii* Clark) p. 82, var. *hudsonianus* Clark discussed p. 82; *brevicauda* var. n. *gaspeensis* Quebec p. 84, McDUNNOUGH Canad. Ent. 66.—*P. machaon hieromax* n. n. for m. var. *montanus* Alph. nec Prunner p. 195; *alcmenor* Feld. & Feld. (= *rhetenor* Westw. nec Cram., *icarius* Westw. nec Esp.) p. 195, HEMMING Stylops 3.—*P. macilentus yokohamanus* ab. n. *pseudochwesi* [In Japanese] Japan p. 64 fig., WATARI Zephyrus, Fukuoka 5.—*P. weiskei* sp. n. New Guinea p. 308 (fig. in Iris 13 1901 p. 338), RIBBE Insekten-Börse 17 1900.—*P. androgeus* ab. n. *decellei*; *triops* ab. n. *trimaculatus* p. 151; *lysihtous* f. n. *plaumanni*; *lycophron* f. n. *paulina* Brazil; *sesostris* ab. n. *pseudozestos*; *lenaus* ab. n. *austerus*; *harmodius* ab. n. *signatus* Bolivia p. 152, KRÜGER Ent. Rdsch. 51.—*P. bellerophon* ab. n. *confluens*; *helios* f. n. *fasciatus* p. 250; *telesilaus* ab. n. *sexfasciatus* p. 251 Brazil, HOFFMANN Ent. Rdsch. 51.—*P. dardanus* ff. n. *epiplanemoides*, *planematus* Kenya p. 2, STONEHAM Bull. Stoneham Mus. no. 19.—*P. maraho* sp. n. Formosa p. 177 figs., SHIRAKI & SONAN Zephyrus 5.—*P. priamus* subsp. n. *ornata* p. 69; *poseidon* ff. n. *obscura* p. 70, *decora*; *papuensis* ab. n. *radiata* p. 71 New Guinea figs., NIEPELT Int. ent. Z. 28.

Paranticopsis subgen. n. see *Papilio*.

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perversus Daghestan p. 14; *eversmanni* subsp. *felderi* f. n. *defasciata* Radde-jewka; e. subsp. *thor* f. n. *quincunx* Alaska p. 15; *honrathi* ff. n. *melanconica*, *rubroocellata*, *biexcelsior* Samarkand; h. subsp. *alburnus* f. n. *nigro-analis* W. Pamirs p. 17; *apollonius* subssp. n. *glaucoptis* Belamurun, *aphrodite* Dsarkent, *kuldschäensis* (with f. n. *medionigroocellata*) Kuldsha p. 19, *aulieataënsis* Aulie-Ata, *poseidon* Tashkent p. 20, *pseudopalpinus* Transalai, *alaicus* Alai; a. *alpinus* f. n. *inversa* Transalai p. 21; a. subsp. *daubi* f. n. *ocelloconjuncta* Sultan-Hazreth p. 22; *bremeri* subsp. *graeseri* f. n. *kitti*, subsp. *bremeri* f. n. *nigrodivisioocellata* Amur p. 34, subsp. *hakutozana* ff. n. *seminiphetodis*, *fasciata* p. 36, *discoircumcincta*, *ornata* Korea p. 37; *cephalus cephalus* ff. n. *quadripicta*, *quinquepicta*, *nigroocellata* p. 24; c. subsp. n. *ares*; *simo* subsp. n. *eos* p. 25 (with ff. n. *rubroanalis*, *magnifica*); *szechenyi* subsp. n. *eros* p. 26; *nomion* subsp. n. *pax* (with f. n. *cubitomaculata*) p. 27 Kansu; *mnemosyne* subssp. n. *elisabethae* p. 38, *daghestanus* p. 39 Armenia; *orleansi* f. n. *costalinigroocellata* Honanp p. 39; *stoliczkanus* subsp. n. *tyllerianus* Yasin p. 40; *epaphus* subsp. n. *epicus* Gilgit p. 41; *actius* subsp. n. *sulla* Chitral p. 42, BRYK & EISNER Parnassiana 3.

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Calliana see *Capila*.

Capila Mre. (= *Calliana* Mre., *Crossiura* Nic., *Orthophoetus* Watson) p. 61, *phanaeus* var. n. *ferrea* Perak; *flora* sp. n. Burma; *pieridoides* var. n. *sofa* Malaya p. 62, EVANS Entomologist 67.

Carcharodus swinhoei subsp. n. *wissmanni* S.W. Arabia p. 20, WARNECKE Mitt. münchen. ent. Ges. 24.—*C. imperator* n. n. for *altheae* Hb. nec Esp. p. 99, HEMMING Stylops 3.

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Crossiura see *Capila*.

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Hemiteleomorpha Warr. type *malvae* L. p. 143, HEMMING Stylops 3.—See *Pyrgus*.

Hesperia F. (= *Urbicola* Tutt) p. 172, HEMMING Gen. Names Holarctic Butterfl. 1934.—*H. fritillum* abb. n. *castanea* p. 316, *supralutea* p. 317; *cinarae* ab. n. *bigornia* Spain; *carthami* Hb. (= *iberica* Gr.-Gr.) p. 318 figs., AGENJO Eos 9.

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Coenotephria subgen. n. see *Cidaria*.

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Japan p. 478, *pelochares* Java p. 479,
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pentasticta p. 91, *zorodes*, *catharia* p. 92,
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monilifer see *Rheophylax*.

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 p. 175, *aequatorium* sp. n. Ecuador
 p. 176 fig., NAVÁS Rev. Acad. Madrid 31.

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 figs., BETTEN Bull. N.Y. St. Mus.
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 p. 575, BANKS J. F.M.S. Mus. 17.—
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ensis Tonkin p. 140, spp. n. figs.,
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 Tabasco p. 140 fig., MOSELY Stylops 3.

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agilis (type) p. 388, *murinus* p. 390
 spp. n. S. Africa figs., BARNARD Trans.
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 See *Phryganea*.

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 further description pp. 243, 338 figs.,
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 Ussuri pp. 241, 337 figs., MARTYNOV
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 p. 162, *insularis* sp. n. Jamaica p. 163
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Bironella hollandi sp. n. New Ireland p. 229, TAYLOR Proc. Linn. Soc. N.S.W. 59.

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Uranotaenia campestris var. n. *xelena* p. 69; *novobscura* p. 84 India, *luteola* Andamans, Malabar Coast p. 80 spp. n. figs., BARRAUD Fn. Br. Ind. Dipt. V Fam. Culicidae 1934.—*U. diagonalis* sp. n. New Guinea p. 510 figs., BRUG Bull. ent. Res. 25.—*U. quinquemaculata* sp. n. Java p. 276 fig., BONNE-WEPSTER Stylops 3.—*U. micromeles* sp. n. San Thomé p. 326, EDWARDS Ann. Mag. n.H. (10) 14.

DIXIDAE.

Dixidae of Lettland, PEUS Notul. ent. 14 pp. 70-74, 3 figs.

Dixa list of Palaearctic spp. p. 204, *sobrina* Alps, Caucasus p. 195, *obsoleta* Alps p. 197, *tetrica* Teneriffe p. 198 spp. n.; *luctuosa* n. n. for *nigra* Mart. nec Staeg. p. 200; *martinii* n.n. for *laeta* Goetgh. nec Lw. p. 202 figs.,

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Panimerus albifacies Tonn. (= *clavigera* Feuerb.) p. 72; *nadorensis* Eat. a nom. nud. p. 81, TONNOIR t.c.

Pericoma canescens discussed p. 69; *funebis* Hutt. (= *variegata* Hutt.) p. 70; *equalis* n. n. for *speciosa* Tonn. nec Meun.; *mutua* Eat. (= *alispinosa* Feuerb.); *undulata* Tonn. (= *Ulomyia incurva* Feu.) p. 71, TONNOIR t.c.—*P. malleolata* see *Telmatoscopus albipunctatus*; *longicornis* (= *deminuens*) townsuillensis see *T.*; *californiensis* see *Maruina*.

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bailly var. *campester* ♀ p. 563, ♂ p. 858; *stantoni* Newst. (= *maynei* Sint.) morphology p. 670 figs., RAYNAL & GASCHEN Bull. Soc. Path. exot. 27.—*P. argentipes*, *papatasii*, *minutus* larval differential characters pp. 662–667 figs., SMITH, KRISHNAN & MUKERJI Ind. J. med. Res. 21.—*P. ariasi* morphology, in Hautes Pyrenees pp. 467–473 figs., RAYNAL & LE GAC Bull. Soc. Path. exot. 27.—*P. sergenti* in Centr. Sahara p. 77; *pernicius* var. *tobbi* in Georgia, U.S.S.R., characters p. 79, raised to sp. rank p. 82; *papatasii* var. *n. bergeroti* Centr. Sahara p. 383; *ariasi* spermatheca p. 386; notes on *minutus* group and classification in general pp. 389–398 figs., PARROT Arch. Inst. Pasteur Algérie 12.—*P.* morphology of some S. American spp. pp. 196–202, *yucatanensis* p. 1, *almazani* p. 193, spp. *n.* Yucatan figs., GALLIARD Ann. Parasit. hum. comp. 12.—*P. larroussei* ♂ p. 343, RAYNAL & LE GAC Ann. Parasit. hum. comp. 12.

Psychoda phalaenoides p. 76, *obscura* p. 78 status discussed; *alternata* Say (= *tripunctata* Macq., *marginepunctata* v. Ros., *septempunctata* Phil. p. 79, *bengalensis* Brun., *conspicillata* Hutt., var. *marmorosa* Abreu p. 90), TONNOIR Bull. Ann. Soc. ent. Belg. 74.—*P. guianica* sp.n. Br. Guiana p. 309, CURRAN Bull. Amer. Mus. n.H. 66.—*P. nocturna*, *snowi*, *legnothisa* see *Telmatoscopus albipunctatus*; *flavescens* see *Trichomyia urbana*.

Telmatoscopus albipunctatus Will. (= *meridionalis* Eat.; *Psychoda legnothisa* Speis., *P. nocturna* Abreu, *P. snowi* Has.) p. 73; *abreui* n. n. for *unicolor* Abreu nec Brun.; *soleatus* Wlk. (= *Pericoma malleolata* Feuerb.) p. 74; *longicornis* Tonn. (= *deminuens* Feuerb.) from *Pericoma*; *townsvillensis* Tayl. from *Pericoma* p. 76; *intermedius* Feu., *nodosus* Feu. nomm. nud. p. 81, TONNOIR Bull. Ann. Soc. ent. Belg. 74.

Trichomyia urbana Curt. (= *Psychoda flavescens* v. Ros.) p. 81, TONNOIR t.c.

Ulomyia incurva see *Pericoma undulata*.

PTYCHOPTERIDAE (LIRIOPEIDAE).

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TIPULIDAE.

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Adelphomyia polysticta sp. n. San Thomé p. 334, EDWARDS Ann. Mag. n.H. (10) 14.

Archilimnophila gen. n. p. 47, type *Limnophila unica* O.S. p. 52, ALEXANDER in CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Arctotipula subgen. n. see *Tipula*.

Arhipidia subgen. n. see *Rhipidia*.

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Baeoura subgen. n. see *Erioptera*.

Chionea lutescens distribution p. 102, ecology p. 103, HEIM DE BALSAC Bull. Soc. ent. Fr. 39.

Cinctotipula subgen. n. see *Tipula*.

Cladura machidella sp. n. Japan p. 50 fig., ALEXANDER Philipp. J. Sci. 55.

Conosia principalis Principé, *thomensis* San Thomé, spp. n. p. 333, EDWARDS Ann. Mag. n.H. (10) 14.

Cryptolabis luteicosta sp. n. Panama p. 71, ALEXANDER Ann. ent. Soc. Amer. 27.—*C. consocia* p. 159, *laevilobata* p. 160 spp. n.; *trichopoda* subsp. n. *hasenensis* p. 161 Formosa figs., ALEXANDER Philipp. J. Sci. 55.

Dasymolophilus liliputanus sp. n. Cape Colony p. 61; *minutissima* Edw. from *Tasiocera* p. 62, ALEXANDER Encycl. ent. Sér. B II Dipt. 7.

Dicranoptycha nigrotibialis sp. n. Formosa p. 45 fig., ALEXANDER Philipp. J. Sci. 55.

Dicranota (*Eudicranota*, *Paradicranota* subgen. n.) p. 46, ALEXANDER in CURRAN Fam. Genn. N. Amer. Dipt. 1934.—*D. platymera* Japan p. 279 53, *plana* Formosa p. 46 55, spp. n. figs., ALEXANDER Philipp. J. Sci.

Dictenidia inaequipunctinata sp. n. Formosa p. 21 fig., ALEXANDER op. cit. 55.

Dolichocheza (*Eunesopeza* subgen. n.), *nebulicola* p. 435, *insolida* p. 436, *subcuneata* p. 438 Java 54, *issikiella* p. 23, *taiwanicola* p. 24, *profundemarginata* p. 137 Formosa, *toala* p. 135, *toraja* p. 138 Celebes 55, spp. n. figs., ALEXANDER op. cit.—*D. fuscocradialis* p. 241, *cairnensis* p. 242, *cyatheti* p. 244, *subannulipes* p. 245, spp. n. Australia, ALEXANDER Ann. Mag. n.H. (10) 13.

Elephantomyia edwardsi larva pp. 263–268, BANGERTER Konowia 13.—*E. luteipennis* sp. n. p. 55; *wahlbergi* subsp. n. *montana* p. 56 Cape Colony, ALEXANDER Encycl. ent. Sér. B. II Dipt. 7.—*E. mackerrasi* Java p. 287 53, *infumosa* N. Celebes p. 152 55, spp. n. figs., ALEXANDER Philipp. J. Sci.

Elliptera zipanguensis subsp. n. *taiwanicola* Formosa p. 44, ALEXANDER op. cit. 55.—*E. omissa* larva pp. 270–272, BANGERTER Konowia 13.

Epiphragma genualis sp. n. Panama p. 64, ALEXANDER Ann. ent. Soc. Amer. 27.—*E. minahassana* sp. n. N. Celebes p. 150 fig., ALEXANDER Philipp. J. Sci. 55.

Erioptera subgen. n. *Baeoura* p. 67, ALEXANDER Ann. ent. Soc. Amer. 17 1924.—*E. genualis* sp. n. San Thomé p. 334, EDWARDS Ann. Mag. n.H. (10) 14.—*E. apicalba* ♀ p. 305, ALEXANDER Bull. Amer. Mus. n.H. 66.—*E. perornata* China p. 292 (*Meterioptera* subgen. n.) p. 462, *festiva* p. 463, *fervida*, *biarmata* p. 465 Philippines 53, *haplostyla* China p. 339, *sziadysi* New Guinea p. 468 54, *luliana* Formosa p. 55 55, spp. n. figs., ALEXANDER Philipp. J. Sci.

Eudicranota subgen. n. see *Dicranota*.

Eulimnophila subgen. n. see *Limnophila*.

Eunesopeza subgen. n. see *Dolichocheza*.

Eutoxorhina subgen. n. see *Toxorhina*.

Gnophomyia capicola sp. n. Cape Colony p. 57, ALEXANDER Encycl. ent. Sér. B II Dipt. 7.

Gonomyia nigrobimbo sp. n. Cape Colony p. 60, ALEXANDER t.c.—*G. obscuriclavata* p. 288, *acuspino* p. 291 Sumatra, *jacobsoniana* Sumatra, Mindanao p. 289, *cotabatoensis* p. 448, *pauaiensis* p. 450, *gratilla* p. 451, *longifimbriata* p. 452, *versicolor* p. 453, *perreducta* p. 454, *pinivagata* p. 456, *ramifera* p. 457, *diacantha* p. 458, *subpilifera* p. 460, *inaequistyla* p. 461 spp. n.; *metatarsata* subsp. n. *atrophia* p. 449 Philippines 53; *kertésziana* New Guinea p. 333, *aquila* p. 334, *latilobata* p. 337 China, *anxia* Sumatra p. 335, *walshae* Java p. 466 54, *mitophora* p. 154, *pervilis* p. 156 Celebes, *gressitti* p. 157 (*Protagonomyia* subgen. n. p. 52), *clitellata* p. 53, *sekiana* p. 54 Formosa spp. n. 55 figs., ALEXANDER Philipp. J. Sci.

Gynoplistia albofasciata p. 257, *guttulicosta* p. 258, *laticincta* p. 260, spp. n. Australia, ALEXANDER Ann. Mag. n.H. (10) 13.—*G. novempectinata* sp. n. Celebes p. 331; *octofasciata* further description p. 333; *biroana* sp. n. New Guinea p. 460 figs., ALEXANDER Philipp. J. Sci. 54.

Helius brevinasus Philippines p. 437
 53, *papuanus* New Guinea, New Britain
 p. 324, *subarcuarius* Java p. 453 54,
copiosus Celebes p. 145 55, spp. n. figs.,
 ALEXANDER op. cit.—*H. panamensis*
 sp. n. Panama p. 63, ALEXANDER Ann.
 ent. Soc. Amer. 27.

Hexatoma interlineata p. 67, *stolida*
 p. 68, spp. n. Panama, ALEXANDER t.c.
 —*H. minensis* p. 329, *diploneura* p. 330
 China, *malangensis* p. 456, *atricornis*
 p. 457 spp. n.; *bengalensis* subsp. n.
constricta p. 459 Java, *salakensis* ♂
 p. 458 54; *masakii* sp. n. Korea p. 48
 55 figs., ALEXANDER Philipp. J. Sci.

Idiolimnophila subgen. n. see *Limnophila*.

Lecteria subgen. n. *Neolecteria* p. 288,
 ALEXANDER Philipp. J. Sci. 53.

Limnophila (*Pseudolimnophila*, *Eulimnophila* subgen. n.) p. 917, ALEXANDER
 Mem. Cornell agric. Exp. Sta. no. 25
 1919.—*L.* subgen. n. *Idiolimnophila*
 p. 48, ALEXANDER in CURRAN Fam.
 Genn. N. Amer. Dipt. 1934.—*L. cir-*
cumscripta p. 251, *clavigera* p. 252,
otwayensis p. 254, *pallidistyla* p. 255,
reniformis p. 256, spp. n. Australia,
 ALEXANDER Ann. Mag. n.H. (10) 13.—
L. soukkyana p. 282, *luteibasalis* p. 283,
inermis, *prionolaboides* p. 285 Japan 53,
marmorea Java p. 455 54, *harukonis*
 p. 47, *ferocia* p. 151 Formosa 55, spp. n.
 figs., ALEXANDER Philipp. J. Sci.—*L.*
venaguttula sp. n. Cape Colony p. 53,
 ALEXANDER Encycl. ent. Sér. B II Dipt.
 7.—*L. unica* see *Archilimnophila*.

Limonia monostromia biology pp. 90-
 96 figs., TOKUNAGA Mushi 7.—*L.*
lavlori p. 55, *melaxantha* p. 56, *atrosig-*
nata p. 58, *flabelliformis* p. 59, *variicosta*
 p. 60, *deliciosa* p. 61, spp. n. Panama,
 ALEXANDER Ann. ent. Soc. Amer. 27.—
L. cuthbertsoni Portuguese E. Africa
 p. 49, *libnotina* Cape Colony p. 50,
 spp. n., ALEXANDER Encycl. ent. Sér. B
 II Dipt. 7.—*L. inanis* p. 247, *cinctitibia*
 p. 249, spp. n. Australia, ALEXANDER
 Ann. Mag. n.H. (10) 13.—*L. tamsi*
 p. 328, *snelli* p. 330 San Thomé,
gelatifex Br. Guiana p. 633, spp. n. figs.,
 EDWARDS Ann. Mag. n.H. (10) 14.—
L. fijiensis subsp. n. *delandi* Santa Cruz
 Is. p. 268; *javanica* subsp. n. *kockensis*
 Sumatra p. 273; *uniflora* Formosa p.
 270, *baliana* Bali I p. 271, *vanikorensis*
 Santa Cruz Is. p. 273, *bryophila* China
 p. 275, *languida* p. 429, *erratica* p. 430,

melanoptera p. 432, *parvispiculata* p.
 433, *circumscripita* p. 434, *rarissima* p.
 435 spp. n.; *sordida* subsp. n. *brevicula*
 p. 437 Philippines 53; *diphragma*
 p. 317, *coxitalis* p. 320, *rectidens* p. 323
 China, *chrysophaea* p. 318, *nigerrima*
 p. 319 Celebes, *quantilla* Sumatra p.
 321, *pacatella* p. 446, *djampangensis* p.
 449 Java, *riedelella* p. 448, *mopsa* p. 450,
flavalis p. 451, *cinereicapilla* p. 452
 New Guinea spp. n.; *formosana* subsp.
 n. *expansimacula* China p. 324 54;
falsa p. 139, *alopecura* p. 142, *curtata*
 p. 144 Celebes, *comissabunda* p. 140,
inscita p. 143, *melas* p. 37, *griseola* p. 42
 Formosa, *tabashii* p. 39, *basisirigata*
 p. 40, *kongosana* p. 43 Korea spp. n. 55
 figs., ALEXANDER Philipp. J. Sci.

Macromastix luteisubcostata sp. n.
 Victoria p. 240, ALEXANDER Ann.
 Mag. n.H. (10) 13.—*M. risbeci* p. 441,
caledoniana spp. n. New Caledonia,
 key to N. Caledonian spp. p. 443 figs.,
 ALEXANDER Philipp. J. Sci. 54.

Meterioptera subgen. n. see *Erioptera*.

Molophilus fusiformis p. 179, *parvi-*
serratus, *ternatus* p. 180, *megacanthus*
 p. 181, *drepanostylus* p. 182, *tetracanthus*
 p. 183, *dorriganus*, *pictor* p. 184,
neolytratus p. 185, *equisetosus* p. 186,
extensicornis p. 187, *trifasciolatus* p. 188,
 spp. n. Australia figs., ALEXANDER
 Proc. Linn. Soc. N.S.W. 59.—*M.*
anerasta p. 71, *chirigietosus* p. 72,
 spp. n. Panama, ALEXANDER Ann. ent.
 Soc. Amer. 27.—*M. triacanthus* Japan
 p. 294, *crassulus* p. 295, *bardus* p. 296
 53, *tetragonus* p. 339 54 China, *ephippiger*
 Formosa p. 57, *celebesicus* Celebes p. 161
 55, spp. n. figs., ALEXANDER Philipp.
 J. Sci.

Monorhipidia subgen. n. see *Rhipidia*.

Neolecteria subgen. n. see *Lecteria*.

Nephrotoma angustifrons sp. n. San
 Thomé p. 335, EDWARDS Ann. Mag.
 n.H. (10) 14.

Odontotipula subgen. n. see *Tipula*.

Orimarga nudivena p. 276, *aequivena*
 p. 277 53, *latissima* p. 326, *basilobata*
 p. 327 China, *risbeci* New Caledonia
 p. 328 54, *gymnoneura* p. 146, *griseipennis*
 p. 147 Formosa, *toala* p. 148, *hypop-*
pygialis p. 149 Celebes 55, spp. n.
 figs., ALEXANDER Philipp. J. Sci.

Ormosia rectangularis Japan p. 293
 53, *diversipennis* Formosa p. 158 55,
 spp. n. figs., ALEXANDER op. cit.

Ozodiceria guianensis sp. n. Br. Guiana p. 303, ALEXANDER Bull. Amer. Mus. n.H. 66.

Pachyrhina pamirensis sp. n. Pamirs p. 146, ENDERLEIN Dtsch. ent. Z. 1933.

Paradicranota subgen. n. see *Dicranota*.

Pedicia list of spp. p. 303, key to Japanese spp., *nawai* p. 304, *gifuensis* p. 305 (with subsp. n. *sawadai* p. 306) spp. n. Japan figs., KARIYA Philipp. J. Sci. 53.—*P. hokkaidensis* sp. n. Japan p. 278 figs., ALEXANDER Philipp. J. Sci. 53.

Protagonomyia subgen. n. see *Gonomyia*.

Pseliophora tinctipennis subsp. n. *orbitalis* Java p. 434, ALEXANDER Philipp. J. Sci. 54.

Pseudolimnophila as a subgen. n. of *Limnophila* p. 917, ALEXANDER Mem. Cornell agric. Exp. Sta. no. 25 1919.—*P. albocoxalis* sp. n. S. Rhodesia p. 52, ALEXANDER Encycl. ent. Sér. B II Dipt. 7.—*P. mobilis* p. 280, *yumotana*, *erecta* p. 281, spp. n. Japan figs., ALEXANDER Philipp. J. Sci. 53.

Rhabdomastix wilsoniana p. 261, *tonnoirana* p. 263, spp. n. Australia, ALEXANDER Ann. Mag. n.H. (10) 13.—*R. minicola* sp. n. China p. 338 fig., ALEXANDER Philipp. J. Sci. 54.

Rhipidia (*Monorhipidia*, *Arhipidia* subgen. n. p. 6), ALEXANDER Bull. Brooklyn ent. Soc. 8 1912.

Scamboneura minahasa p. 439, *subfaceta* p. 440, spp. n. Celebes figs., ALEXANDER Philipp. J. Sci. 54.

Shannonomyia atropicalis sp. n. Panama p. 65, ALEXANDER Ann. ent. Soc. Amer. 27.

Tasiocera minutissima see *Dasymolophilus*.

Teucholabis leridensis sp. n. Panama p. 69, ALEXANDER Ann. ent. Soc. Amer. 27.

Tipula (subgen. n. *Trichotipula*, *Cinctotipula*, *Odontotipula*) pp. 939, 942, 943, ALEXANDER Mem. Cornell agric. Exp. Sta. no. 25 1919.—*T.* key to spp. of *stigmatella* group p. 125, on trifurcatae of Europe and N. Asia p. 131; *obtusiuscula* sp. n. Pyrenees p. 129 figs., LACKSHEWITZ Konowia 13.—*T. sacerdotula* sp. n. p. 114;

recticornis ♀ p. 116 Sardinia; *obscurinervis* ♂ Russia p. 113; *atricicola* n. n. for *imperfecta* Ried. nec Brun. p. 118 figs., RIEDEL Arch. Naturgesch. 82 1918 All.—*T. hollandi* p. 4, *suttoni* p. 5, spp. n. Southampton I figs., ALEXANDER Mem. Carnegie Mus. 12 pt. 2 sect. 4.—*T. excisoides* p. 398, *kamchatkana* p. 400, *pallitergata* p. 401, *immunda* p. 403, *transbaikalia* p. 406, *tchukchi* p. 408, (*Arctotipula* subgen. n.) p. 410, *hirtitergata* p. 411, *gavronskii* p. 412, *popoffi* p. 414, *tundrensis* p. 415, *polygogon* p. 417, *lamentaria* p. 418, *lundströmiana* p. 420, *flaccida* p. 422, *dershavini* p. 423, *laetibasis* (also Japan) p. 425, *gondattii* p. 427, *derbecki* p. 428, *chernavini* p. 430, *mesacantha* p. 431, *mediolobata* p. 433, *docilis* p. 434, *fidelis* p. 436, *cupida* p. 437, *blastoptera* p. 439 E. Siberia 52, *deserrata* p. 309, *kwankhsienana* p. 311, *dicladura* p. 313, *platycantha* p. 314, *bipendula* p. 315 China, *leucosticta* New Guinea p. 444 54, *haplotricha* p. 26, *nestor* p. 28, *parvacpiculata* p. 30, *obtusiloba* p. 32, *ornata* p. 35 Formosa, *koreana* p. 33, *multibarbata* p. 133 Korea 55, spp. n. figs., ALEXANDER Philipp. J. Sci.

Toxorhina (*Eutoxorhina* subgen. n.) *simplex* Fiji p. 297 53, *biroi* New Guinea p. 469 54, spp. n. figs., ALEXANDER op. cit.

Trentepohlia tripunctata sp. n. San Thomé p. 332, EDWARDS Ann. Mag. n.H. (10) 14.—*T. chitellaria* p. 58, *jacobi* p. 59, spp. n. Kamerun, ALEXANDER Encycl. ent. Sér. B II Dipt. 7.—*T. chiriquiana* sp. n. Panama p. 68, ALEXANDER Ann. ent. Soc. Amer. 27.—*T.* key to Philippine subgen. and spp. p. 442, *carbonipes* p. 446, *laetithorax* p. 447, Philippines 53, *auricosta* p. 462, *auranticolor* p. 463, *separata* p. 465 Java 54, *fuscobasalis* p. 51, *proba* p. 153 Formosa 55, spp. n. figs., ALEXANDER Philipp. J. Sci.

Trichoneura bontocensis sp. n. Philippines p. 438 figs., ALEXANDER op. cit. 53.

Trichotipula subgen. n. see *Tipula*.

Troglophila cotabatoensis sp. n. Mindanao p. 440 fig., ALEXANDER Philipp. J. Sci. 53.

Ula macroptera larva pp. 268–270, BANGERTER Konowia 13.

STRATIOMYIIDAE.

Acanthasargus gen. n., *palustris* sp. n.
Tasmania p. 60 fig., WHITE Pap. roy.
Soc. Tasm. 1914 1915.

Acanthina see *Acanthiomyia*.

Acanthiomyia *metallica* p. 312,
centor p. 313, spp. n. Br. Guiana,
CURRAN Bull. Amer. Mus. n.H. 66.

Acanthiomyia n. n. for *Acanthina*
Wied. nec Fischer p. 129, HUNTER
Trans. Amer. ent. Soc. 27 1901.

Actina costata sp. n. Tasmania p. 51,
WHITE Pap. roy. Soc. Tasm. 1914
1915.—*A. incisuralis* larva pp. 190–196
figs., FULLER Proc. Linn. Soc. N.S.W.
59.

Antissella gen. n. type *Beris parviden-*
tata Macq. p. 52 fig., WHITE Pap. roy.
Soc. Tasm. 1914 1915.

Dicamptocrana gen. n., *jörgenseni*
Paraguay p. 306, FREY Rev. suisse
Zool. 41.

Euryneura rufifrons sp. n. Br. Guiana
p. 314, CURRAN Bull. Amer. Mus. n.H.
66.

Gongroneura see *Gongroneurina*.

Gongroneurina n. n. for *Gongroneura*
End. nec Jacobi p. 428, ENDERLEIN
S.B. Ges. naturf. Fr. Berlin 1933.

Hermetia teevani p. 316, *beebei* p. 317,
mitis, *sphecodes* p. 318, spp. n. Br. Guiana,
CURRAN Bull. Amer. Mus. n.H. 66.

Hermione binotata Darjeeling p. 1,
laniger Tibet p. 2, spp. n. SÉGUY Encycl.
ent. Sér. B II. Dipt. 7.

Hoplitimyia gen. n. for *Stratiomyia*
constans Lw., scope, key p. 443, JAMES
Ann. ent. Soc. Amer. 27.

Lecogaster gen. n. p. 53, *caerulea*
sp. n. Tasmania p. 54 fig., WHITE Pap.
roy. Soc. Tasm. 1914 1915. See
Lecomia.

Lecomia n. n. for *Lecogaster* White
preocc. p. 260, WHITE Pap. roy. Soc.
Tasm. 1916 1917.

Lonchogaster gen. n. p. 61, *armata*
sp. n. Tasmania p. 62 fig., WHITE Pap.
roy. Soc. Tasm. 1914 1915.

Merosargus insularis sp. n. Cocos I.
p. 150, CURRAN Proc. Calif. Acad. Sci.
(4) 21.

Odontomyia spp. respiration and
respiratory system pp. 605–658 figs.,
KUSTER Pap. Mich. Acad. Sci. Arts
Lett. 19.

Ophiodesma synonymy p. 421, key,
brunnipennis p. 422, *minor* p. 423,
spp. n. Australia figs., FULLER Proc.
Linn. Soc. N.S.W. 59.

Ptecticus inversus sp. n. Br. Guiana
p. 321, CURRAN Bull. Amer. Mus. n.H.
66.

Rosaphula gen. n., *handschini* sp. n.
Java p. 303 fig., FREY Rev. suisse Zool.
41.

Solva javana var. n. *floresensis* Flores
p. 300, FREY t.c.

Stratiomyia constans see *Hoplitimyia*.

Stratiomyjs spp. respiration and
respiratory system pp. 605–658 figs.,
KUSTER Pap. Mich. Acad. Sci. Arts
Lett. 19.

Timorimyia gen. n. p. 304, *bidentata*
sp. n. Timor p. 305 figs., FREY Rev.
suisse Zool. 41.

TABANIDAE.

Utah horseflies, KNOWLTON &
THATCHER Proc. Utah Acad. Sci. 11
pp. 291–294.

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and S. America, including Mexico and
Antilles, KRÖBER Rev. Ent. Rio de J.
4 pp. 222–276, 291–333.

Tabanidae of N.W. China, KRÖBER
Ark. Zool. 26A no. 8 pp. 2–14, 11 figs.

Alliomma gen. n. for *Ommallia*
thiemeana End. pp. 222, 269, BORG-
MEIER Rev. Ent. Rio de J. 4.

Aphotriclista gen. n., *madagascari-*
ensis sp. n. Madagascar p. 183, ENDER-
LEIN S.B. Ges. naturf. Fr. Berlin 1934.

Aplococera gen. n. for *Sziladynus*
caucasica End. (type), *S. decora* Lw., *S.*
himalayana End. p. 144; *pamirensis*
sp. n. Pamirs p. 145, ENDERLEIN Dtsch.
ent. Z. 1933.

Atylotus subvittatus sp. n. Morocco
p. 65 fig., SÉGUY Encycl. ent. Sér. B II.
Dipt. 7.

Bolbodimyia lateralis ♀; *nigra* sp. n.
Ecuador p. 190, STONE Rev. Ent. Rio
de J. 4.

Buplex bazini ♂ ♀ p. 5 figs., SÉGUY
Encycl. ent. Sér. B II. Dipt. 7.

Chrysops mauritanicus varr. n. surcoufi Morocco, chobauti Algeria p. 182, VILLENEUVE Rev. franç. Ent. 1.—*C. szechuanensis* sp. n. China p. 2 figs., KRÖBER Ark. Zool. 26a no. 8.

Chrysozona see *Haematopota*.

Corizoneura longirostris morphology, biology pp. 24–28 figs., SEN Ind. J. vet. Sci. 1 1931.

Di cladocera gen. n., LUTZ Braz. Med. 27 1913; Mem. Inst. Oswaldo Cruz. 6 1914 pp. 79, 166.

Discione gen. n., syrphoides sp. n. Madagascar p. 182, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Fidena castaneiventris n. n. for castanea Surc. nec Perty p. 246; nigricorpus n. n. for nigricans Kröb. nec Lutz p. 291 (note), KRÖBER Rev. Ent. Rio de J. 4.

Goniops chrysocoma biology pp. 73–79, SCHWARDT J. Kans. ent. Soc. 7.

Haematopota (*Chrysozona*) *hedini*, kansuensis p. 12, ustulata p. 13, spp. n. China figs., KRÖBER Ark. Zool. 26A no. 8.—*H. (C.) aquilina* sp. n. China p. 3 fig., SÉGUY Encycl. ent. Sér. B II. Dipt. 7.—*H. roralis* bionomics pp. 278–280 figs., ISAAC Ind. J. vet. Sci. 2 1932.—*H. pluvialis* morphology, life-history pp. 211–250 figs., CAMERON Trans. roy. Soc. Edinb. 58.

Himantostylus intermedius ♀ p. 191, STONE Rev. Ent. Rio de J. 4.

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Ommallia thiemeana see *Alliomma*.

Pangonius xanthozonarius sp. n. Fr. Congo p. 63, SÉGUY Encycl. ent. Sér. B II Dipt. 7.—*P. leucomelana* sp. n. Mozambique p. 14, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.—*P. albifrons* see *Lilaeina*.

Rhinomyza fenestrata p. 63, stigmatana p. 64, spp. n. Madagascar figs., SÉGUY Encycl. ent. Sér. B. II Dipt. 7.

Stypommia ochotskana sp. n. Siberia p. 184; septentrionalis Loew from *Tylostypia* p. 185, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Sziladynus caucasica, decora, himalayana see *Aplococera*.

Tabanus revision of Tasmanian spp. pp. 43–48, key p. 43; gregarius Erich. (= tasmaniensis White) p. 48, HARDY Stylops 3.—*T. speciosus* morphology, biology pp. 182–184 figs., ISAAC Ind. J. vet. Sci. 3 1933.—*T. mongolensis* Mongolia p. 3, atripes p. 5, brevifrons p. 6, sven-hedini p. 7, kiangsuensis p. 10 China, spp. n.; gerckeri ♂ p. 9 figs., KRÖBER Ark. Zool. 26a no. 8.—*T. uruguayanus* n. n. for uruguayensis Kröb. nec Arrib. p. 294; lutzi n. n. for macquart Kröb. nec Schin.; pruinicorpus n. n. for pruinosis Kröb. nec Big.; xipe n. n. for surinamensis Kröb. nec Macq. p. 296; parviceps n. n. for microcephalus Kröb. nec O.S.; pulcher n. n. for pulchellus Kröb. nec Lw.; frater n. n. for fraternus Kröb. nec Macq. p. 297; lucipennis n. n. for claripennis Kröb. nec Big.; pelidnoteris n. n. for maculipennis Kröb. nec Wied.; adjunctus n. n. for affinis Kröb. nec Kby.; adornatus n. n. for ornatus Kröb. nec Jaenn. p. 298; bellus n. n. for formosus Kröb. nec Wlk.; canicolor n. n. for canescens Kby. nec Surc.; canipilis n. n. for canus Kröb. nec Karsch; circumiens n. n. for cingulatus Kröb. nec Thnb. p. 299; divaricatus n. n. for frontalis Kröb. nec Wlk.; erythrocerus n. n. for ruficornis Kröb. nec F.; frequens n. n. for communis Kröb. 1931 nec 1930; maculiceps n. n. for maculifrons Kröb. nec Hine p. 300; modestinus n. n. for modestus Kröb. nec Wied.; neogrisescens n. n. for grisescens Kröb. nec Szil.; nigrifemur n. n. for nigrofemoratus Kröb. 1931 nec 1929; ornatipennis n. n. for pictipennis Kröb. nec Macq.; pilifer n. n. for pilosus Kröb. nec Lw.; pruinivitta n. n. for pruinosis Kröb. nec Big. p. 301; pusio n. n. for pygmaeus End. nec Will.; ruficolor n. n. for rufus Kröb. nec Scopoli p. 302; hyalineus n. n. for hyalinipennis Kröb. nec Hine; obscurigaster n. n. for obscuriventris Kröb. 1930 nec 1929; pallidulus n. n. for pallidus Kröb. nec Pall. p. 303; aphanopterus var. obscuripilis n. n. for var. obscurehirtus Kröb. nec

Ric.; *badicolor* n. n. for *badius* Kröb. nec Summers; *criton* n. n. for *columbianus* Kröb. nec End. p. 304; *guttigaster* n. n. for *guttiventris* Kröb. nec End.; *magnificus* n. n. for *formosus* Kröb. nec Wlk.; *medius* n. n. for *intermedius* Kröb. nec Wlk.; *minoratus* n. n. for *minor* Kröb. nec Macq. p. 305; *unimacula* n. n. for *unimaculatus* Kröb. nec Macq.; *appretiatu* n. n. for *apicalis* Macq. nec Wied. p. 306; *flavinotum* n. n. for *nigriflavus* Kröb. 1931 nec 1930 p. 309; *persignatus* n. n. for *ornatus* Kröb. nec Jaenn.; *ratus* n. n. for *validus* Hine nec Wied. p. 313; *rubricosus* n. n. for *rubidus* Macq. nec Wied. p. 314, KRÖBER Rev. Ent. Rio de J. 4.—*T. amoenatus* sp. n. China; *amoenus* ♂ p. 4, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.—*T. nigrotuberculatus* n. n. for *flavipes* Wied. nec Grav. p. 139; *sackeni* sp. n. U.S.A. p. 141 figs., FAIRCHILD Occ. Pap. Boston Soc. n.H. 8.

Tylostypia reinigiana sp.n. Pamirs p. 145, ENDERLEIN Dtsch. ent. Z. 1933.—*T. septentrionalis* see *Stypommia*.

PANTOPHTHALMIDAE

(ACANTHOMERIDAE).

Meraca gen. n. for *Opetiops sigma* Enderl. (type) p. 181, *batesi* Aust. p. 182, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Opetiops sigma, *batesi* see *Meraca*.

Pantophthalmus tabaninus morphology biology, systematic position pp. 5–22 figs., THORPE Trans. R. ent. Soc. Lond. 82.

LEPTIDAE (RHAGIONIDAE).

Revision of Rhagionidae of Palaearctic Region, SZILÁDY Ann. Mus. hung. 28 pp. 229–270, 5 figs.

Keys to Hungarian Rhagionidae, SZILÁDY Mat. term. Ert. 51 pp. 600–612.

Achrysopilus suomianus sp. n. Finland p. 256, SZILÁDY Ann. Mus. hung. 28.

Archicera avarorum sp. n. Croatia, Styria p. 268, SZILÁDY t.c.

Atherigia gen. n. pp. 232, 235, key to spp. p. 235, *dalmatina* [in key and fig. legend, sp. description as *dalmatica*] sp. n. Dalmatia p. 238 figs., SZILÁDY t.c.

Atherimorpha gen. n. p. 41, *vernalis* sp. n. Tasmania p. 42 fig., WHITE Pap. roy. Soc. Tasm. 1914 1915.

Cekendia wuorentausi sp. n. Kamtschatka p. 262, SZILÁDY Ann. Mus. hung. 28.

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Chrysonotus see *Chrysonotomyia*.

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Clesthentia gen. n. p. 45, *aberrans* sp. n. Tasmania p. 46, WHITE Pap. roy. Soc. Tasm. 1914 1915.

Dasyomma herbsti sp. n. Chile p. 187, EDWARDS Stylops 3.

Leptis basalis see *Sapporomyia*.

Rhagiella subgen. n. see *Rhagio*.

Rhagio key to Palaearctic spp., *Rhagionella*, *Rhagiella* subgen. n. p. 239, *sardous* Sardinia p. 247, *grandis* E. Pyrenees p. 248, *libanonicus* Lebanon p. 252 spp. n. figs., SZILÁDY Ann. Mus. hung. 28.—*R. biroi* Matheran, India p. 8, *shirakii* Formosa p. 9, spp. n. fig., SZILÁDY Konowia 13.

Rhagionella subgen. n. see *Rhagio*.

Sapporomyia gen. n. for *Leptis basalis* Mats. p. 233, SZILÁDY Ann. Mus. hung. 28.

Spaniopsis gen. n. p. 43, *tabaniformis* sp. n. Tasmania p. 44 fig., WHITE Pap. roy. Soc. Tasm. 1914 1915.

Trichopalpomomyia n. n. for *Trichopalpus* Philp. nec Rond. p. 148, HUNTER Trans. Amer. ent. Soc. 27 1901 (see *Dasyomma* Z.R. 68 1931 p. 351).

THEREVIDAE.

Henicomomyia brevicornis sp. n. Br. Guiana p. 361, BROMLEY Bull. Amer. Mus. n.H. 66.

Pseudoloxocera fascifrons sp. n. N. Australia p. 311, FREY Rev. suisse Zool. 41.

Psilocephala sequa early stages pp. 203–204 figs., BHATIA Ind. J. agric. Sci. 4.—*P. senilis* sp. n. Br. Guiana p. 361, BROMLEY Bull. Amer. Mus. n.H. 66.

Reinigiellum gen. n., *speculiferum*
sp. n. Pamirs p. 139, ENDERLEIN
Dtsch. ent. Z. 1933.

Stratiobelonalys gen. n., *handschini*
sp. n. Timor p. 309 figs., FREY Rev.
suisse Zool. 41.

Tabudz fulvipes see *Thereva nervosa*.

Thereva nervosa Wlk. (= *Tabuda*
fulvipes Wlk.) p. 188, CURRAN Fam.
Genn. N. Amer. Dipt. 1934.

SCENOPINIDAE (OMPHRALIDAE).

Omphrale minuscula sp. n. Mad-
agascar p. 74, SÉGUY Encycl. ent. Sér.
B II. Dipt. 7.

Scenopinus schulzi Brazil, *mada-
gascariensis* Madagascar, spp. n. p. 429,
ENDERLEIN S.B. Ges. naturf. Fr.
Berlin 1933.

NEMESTRINIDAE.

Hirmoneura exotica ♂ p. 175;
texana ♀ p. 178 (with var. n. *arizonensis*
Arizona p. 180), BEQUAERT J. N.Y.
ent. Soc. 42.

Nemestrellus pieltaini sp. n. Morocco
p. 321; *nigrovillosus* subsp. n. *traut-
manni* Spain p. 325 figs., GIL COLLADO
Eos 9.

Neorhynchocephalus discussed p. 163,
key p. 164, *volaticus* Will. (= *maculatus*
Curr., *flavus* Curr.) p. 166; *sackenii*
Will. (= *subnitens* Curr.) p. 169;
mexicanus sp. n. Mexico p. 171 figs.,
BEQUAERT J. N.Y. ent. Soc. 42.

Parasymmictus clausus in Br.
Columbia p. 87, SPENCER Canad. Ent.
66.

Rhynchocephalus sackeni recorded in
Br. Columbia in error for *Parasymmictus*
clausus p. 87, SPENCER t.c.

Trichopsidea key p. 181, BEQUAERT
J. N.Y. ent. Soc. 42.

CYRTIDAE.

Oncodes flavescens p. 70, *nigrinervis*
p. 71, *ater*, *pygmaeus* p. 72, spp. n.
Tasmania fig., WHITE Pap. roy. Soc.
Tasm. 1914 1915.

Pterodonta variegata sp. n. Tasmania
p. 68 fig., WHITE t.c.

MYDAIDAE.

Catalogue of Mydaidae of Palaearctic
Region, SACK in LINDNER Flieg. Pal.
Reg. 23 28 pp. 23 figs.

Ectyphus limbatus see *Opomydas*.

Leptomydas pantherinus see
Nemomydas.

Mydas auriculosus sp. n. Tonkin
p. 6 figs., SÉGUY Encycl. ent. Sér.
B II. Dipt. 7.

Nemomydas gen. n. type *Leptomydas*
pantherinus Gerst. p. 165, CURRAN
Fam. Genn. N. Amer. Dipt. 1934.

Opomydas gen. n. type *Ectyphus*
limbatus Will. p. 165, CURRAN t.c.

Rhopalia annulata Syria p. 11, *cincta*
Egypt p. 12, spp. n. figs., SACK in
LINDNER Flieg. Pal. Reg. 23.

Rhopaliana gen. n., *rufithorax* sp. n.
Tunisia p. 67 figs., SÉGUY Encycl.
ent. Sér. B II. Dipt. 7.

ASILIDAE.

Revision of Asilidae of Texas,
BROMLEY Ann. ent. Soc. Amer. 27
pp. 74-113, 2 pls.

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BROMLEY Ohio J. Sci. 34 pp. 163-164.

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EFFLATOUN Mém. Soc. ent. Egypte
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Ark. Zool. 25a no. 22 17 pp. 10 figs.

Key to groups and genera of Saropo-
gonini, HARDY Ann. Mag. n.H. (10)
14 pp. 2-4.

Asilidae of Australia, I, HARDY
Ann. Mag. n.H. (10) 13 pp. 498-525;
(10) 14 pp. 1-35, 15 figs.

Ablautus mcgregori sp. n. Texas
p. 88, BROMLEY Ann. ent. Soc. Amer.
27.

Acnephalum key, *cockerelli* sp. n.
Cape Province p. 5, CURRAN Amer.
Mus. Nov. no. 710.

Aireina subgen. n. see *Xenomyza*.

Alcimus cuthbertsoni p. 235, *seti-
femoratus* Rhodesia, *nigropalpus* Tan-
ganyika, *rubicundus* Kenya p. 236,
spp. n. figs., HOBBY Ent. mon. Mag.
70.

Alexiopogon gen. n. p. 177 type
Lasiopogon terricola Johnson p. 183,
CURRAN Fam. Genn. N. Amer. Dipt.
1934.

Ancyloclorrhynchus apicalis sp. n.
S. Rhodesia p. 7, CURRAN Amer. Mus.
Nov. no. 710.

Andrenosoma erax, elegans p. 343,
punctata, cyaniventris p. 344, spp. n.
Br. Guiana, BROMLEY Bull. Amer.
Mus. n.H. 66.

Asilus atrimaculatus sp. n. Mada-
gascar p. 15 figs., HOBBY Ent. mon.
Mag. 70.—*A. cacopiloga* see *Procta-
cathella*.

Atomosia andrenoides Br. Guiana,
bequaerti Amazon, spp. n. p. 339,
BROMLEY Bull. Amer. Mus. n.H. 66.

Austrosaropogon gen. n., *claviger* sp. n.
Australia p. 11, HARDY Ann. Mag.
n.H. (10) 14.

Bombomima nigella sp. n. Texas
p. 93, BROMLEY Ann. ent. Soc. Amer.
27.

Ceraturgopsis oklahomensis sp. n.
Oklahoma p. 225, BROMLEY J. N.Y.
ent. Soc. 42.

Ceraturgus hedini sp. n. China p. 15
fig., ENGEL Ark. Zool. 25a no. 22.

Cerdistus desertorum p. 136, *heleni*
p. 140, spp. n. Egypt figs., EFFLATOUN
Mém. Soc. ent. Egypte 4 no. 2.

Cerotainia camposi sp. n. Ecuador
p. 3, CURRAN Amer. Mus. Nov. no. 752.

Chrysopogon key p. 28, *horni* sp. n.
Queensland p. 29 fig., HARDY Ann.
Mag. n.H. (10) 14.

Clinopogon maritima sp. n. Australia
p. 511, HARDY op. cit. (10) 13.

Cophura texana sp. n. Texas p. 92,
BROMLEY Ann. ent. Soc. Amer. 27.

Cyrtopogon daimyo var. n. *chinensis*
N.W. China p. 13, ENGEL Ark. Zool.
25a no. 22.

Dakinomyia gen. n. for *Neosaropogon*
froggatti Dak. & Forh. p. 25, HARDY
Ann. Mag. n.H. (10) 14.

Damalis conspicua sp. n. Cape
Province p. 10, CURRAN Amer. Mus.
Nov. no. 710.

Deromyia lineola sp. n. Brazil p. 335,
BROMLEY Bull. Amer. Mus. n.H. 66.

Dioctria cavifrons sp. n. Alai p. 142,
ENDERLEIN Dtsch. ent. Z. 1933.

Diogmites maculatus sp. n. Ecuador
p. 1, CURRAN Amer. Mus. Nov. no. 752.
—*D. texanus* sp. n. Texas p. 91,
BROMLEY Ann. ent. Soc. Amer. 27.

Eccritosis key, *barbiellinii* sp. n.
Brazil p. 13; *zamon* Twms. distinct
from *amphinome* Wlk. p. 14, CURRAN
Amer. Mus. Nov. no. 752.

Epitriptus solox sp. n. Pamirs p. 144,
ENDERLEIN Dtsch. ent. Z. 1933.

Erax beaxarensis p. 94, *prairiensis*,
canellus p. 95, spp. n. Texas, BROMLEY
Ann. ent. Soc. Amer. 27.—*E. imbuda*
sp. n. Ecuador p. 16 fig., CURRAN
Amer. Mus. Novit. no. 752.—*E. titan*
Br. Guiana, *amazonicus* Brazil, spp. n.
p. 359, BROMLEY Bull. Amer. Mus.
n.H. 66.

Eumecosoma mollis sp. n. Br. Guiana
p. 340, BROMLEY t.c.

Haplonota gen. n., *elegans* sp. n.
Java p. 316, FREY Rev. suisse Zool. 41.

Heteropogon wilcoxi sp. n. Colorado
p. 84, JAMES Pan-Pacific Ent. 10.

Hodophylax aridus further description
p. 83, JAMES t.c.

Holcocephala bullata sp. n. Texas
p. 89, BROMLEY Ann. ent. Soc. Amer.
27.

Holopogon texanus sp. n. Texas p. 89,
BROMLEY t.c.

Laphria, Australian, key p. 518,
HARDY Ann. Mag. n.H. (10) 13.

Lasiopogon terricola see *Alexiopogon*.

Leptogaster pubescens, magnicauda
p. 328, *vorax, tropica* p. 329, spp. n.
Br. Guiana, CURRAN Bull. Amer.
Mus. n.H. 66.—*L. auripulverella* sp. n.
Tunisia p. 70, SÉGUY Encycl. ent.
Sér. B II. Dipt. 7.—*L. texanus* sp. n.,
Texas p. 88, BROMLEY Ann. ent. Soc.
Amer. 27.

Lophopeltis key to African spp. p. 11,
cuthbertsoni p. 12, *arno* p. 13 S.
Rhodesia, *angola, albion* Angola p. 14,
spp. n., CURRAN Amer. Mus. Novit.
no. 710.—See *Neolophonotus*.

Lophurodamalis natalensis Natal p. 8,
simplex S. Rhodesia p. 9, spp. n.,
CURRAN Amer. Mus. Nov. no. 710.

Lophybus subgen. n. see *Neolo-
phonotus*.

Machimus meridionalis sp. n. Egypt p. 168 fig., EFFLATOUN Mém. Soc. ent. Egypte 4 no. 2.—*M. pubescens*, *excelsus* see *Trichomachimus*.

Mallophora speciosa (CURRAN) p. 349, *fusca* (BROMLEY) p. 350, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.—*M.* key p. 4, *schwarzi* Canal Zone p. 5, *antica* p. 6, *abana* p. 7 Brazil, spp. n., CURRAN Amer. Mus. Nov. no. 752.—*M. guildiana* see *Mallophorina*.

Mallophorina gen. n. p. 181, type *Mallophora guildiana* Will. p. 184, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Negasilus gen. n. p. 183, *belli* sp. n. N. America p. 184, CURRAN t.c.

Neolaparus key to African spp. p. 2, *bivittatus* sp. n. S. Rhodesia p. 3, CURRAN Amer. Mus. Nov. no. 710.

Neolophonotus marshalli sp. n. Rhodesia p. 237 fig., HOBBY Ent. mon. Mag. 70.—*N.* (subgen. n. *Lophopeltis*, type *erythracantha* Herm., *Lophybus*, type *melanolophus* Lw.) p. 349, HERMANN in ENGEL Bull. Soc. ent. Egypte 8 1925.

Neosaropogon minor sp. n. Australia p. 17, HARDY Ann. Mag. n.H. (10) 14.—*N. froggatti* see *Dakinomyia*.

Neoterhaptomenus gen. n., *morus* sp. n. Queensland p. 523 figs., HARDY Ann. Mag. n.H. (10) 13.

Nicocles reinhardi sp. n. Texas p. 91, BROMLEY Ann. ent. Soc. Amer. 27.

Ommatinus striatus sp. n. Egypt p. 73 fig., EFFLATOUN Mém. Soc. ent. Egypte 4 no. 2.

Ommatius aegyptius sp. n. Egypt p. 66 fig., EFFLATOUN t.c.—*O. barbiellinii* sp. n. Brazil p. 18, CURRAN Amer. Mus. Nov. no. 752.

Osiprocercus parksi sp. n. Texas p. 89, BROMLEY Ann. ent. Soc. Amer. 27.—*O. monki* sp. n. Texas p. 225, BROMLEY J. N.Y. ent. Soc. 42.

Pachychoeta apicalis p. 355, *genitalis* p. 356, spp. n. Br. Guiana, BROMLEY Bull. Amer. Mus. n.H. 66.

Philonicus sinaiticus sp. n. Sinai p. 131 fig., EFFLATOUN Mém. Soc. ent. Egypte 4 no. 2.

Porasilus gen. n., *barbiellinii* sp. n. Brazil p. 15, CURRAN Amer. Mus. Nov. no. 752.

Proctacanthella gen. n. for *Asilus cacopiloga* Hine p. 96, BROMLEY Ann. ent. Soc. Amer. 27.

Proctacanthus key p. 8, *dina* p. 9, *fervidus* p. 11 Brazil, *camposi* Ecuador p. 10, *salti* Colombia p. 11, *guianica* Br. Guiana p. 12, spp. n., CURRAN Amer. Mus. Nov. no. 752.

Promachina gen. n. for *Promachus trapezoidalis* Bellardi p. 352, BROMLEY Bull. Amer. Mus. n.H. 66; also Ann. ent. Soc. Amer. 27 p. 96.

Promachus painteri p. 93, *texanus* p. 94, spp. n. Texas, BROMLEY Ann. ent. Soc. Amer. 27.—*P. sinaiticus* sp. n. Sinai p. 58 figs., EFFLATOUN Mém. Soc. ent. Egypte 4 no. 2.—*P. trapezoidalis* see *Promachina*.

Psilocurus puellus sp. n. Texas p. 92, BROMLEY Ann. ent. Soc. Amer. 27.

Saropogon pritchardi p. 90, *fletcheri* p. 91, spp. n. Texas, BROMLEY t.c.—*S. mellipes* sp. n. Br. Guiana p. 336, BROMLEY Bull. Amer. Mus. n.H. 66.

Satanas chan p. 3, *agha* p. 5, spp. n. China figs., ENGEL Ark. Zool. 25A no. 22.

Selidopogon auripilus sp. n. Morocco p. 70, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.

Senobasis tibialis p. 332, *mendax* p. 333, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Stenopogon strataegus var. n. *longulus* N.W. China p. 13, ENGEL Ark. Zool. 25A no. 22.—*S. flavibarbis*, *fuscibarbis* spp. n. Pamirs p. 143, ENDERLEIN Dtsch. ent. Z. 1933.

Stichopogon colei sp. n. Texas p. 90, BROMLEY Ann. ent. Soc. Amer. 27.—*S.* key p. 512, *bancrofti*, *minor* spp. n. Australia p. 513, HARDY Ann. Mag. n.H. (10) 13.

Stiphrolamyia gen. n. type *albibarbis* Eng. p. 232, ENGEL in LINDNER Flieg. Pal. Reg. 24 1928.

Trichardis cinctellus sp. n. Tunisia p. 71, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.

Trichomachimus gen. n. for *Machimus pubescens* Ric. (type) p. 10, *M. excelsus* Ric. p. 11 fig., ENGEL Ark. Zool. 25A no. 22.

Trichioscelis perfecta sp. n. Ecuador p. 2, CURRAN Amer. Mus. Nov. no. 752.

Xenomys key to Oriental spp. p. 311, (*Aireina* subgen. n.), *scrobiculata* N. Palawan, *vitalisi* India p. 312, *formosana* Formosa p. 313, *floresana* Flores, *paradoxa* India p. 314, spp. n., FREY Rev. suisse Zool. 41.

BOMBYLIIDAE.

Revision of Bombyliidae of Palaearctic Region, ENGEL in LINDNER Flieg. Pal. Reg. 25 pp. 193-256.

Notes on some Bombyliids, PARAMONOV Stylops 3 pp. 107-111.

Bombyliidae of N.W. China, PARAMONOV Ark. Zool. 26A no. 4, 7 pp.

Acanthogeron albatrus, *dayas* spp. n. Algeria p. 73, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.

Acrodisca subgen. n. see *Exoprosopa*.

Aleucosia subgen. n. see *Comptosia*.

Alloxytropus gen. n. type *anomalus* Bez. p. 186, BEZZI Bull. Soc. ent. Egypte 1924 1925.

Anastoechus macrophthalmus sp. n. S. Africa p. 74, BEZZI Brotéria Sér. Zool. 20 1922.—*A. nitidulus* var. n. *hummei* China p. 6, PARAMONOV Ark. Zool. 26A no. 4.—*A. niveicollis* sp. n. Pamirs p. 141, ENDERLEIN Dtsch. ent. Z. 1933.

Anthrax guianica sp. n. Br. Guiana p. 362, CURRAN Bull. Amer. Mus. n. H. 66.—*A. luridus* see *Walkeromyia*.

Bombylius argentarius sp. n. Tunisia p. 74, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.—*B. robertsi* sp. n. Australia p. 31, PARAMONOV Konowia 13.

Comptosia classification p. 82, characters pp. 84-86, key to genus of group p. 86, *vittata* p. 89, *brunnea* p. 90, *bancrofti*, *biguttata* p. 93, *walkeri*, *wilkinsi* p. 94 (*Aleucosia* subgen. n. p. 95), *cincta*, *costalis* p. 99, *cuneata*, *angusta* p. 100 Australia, *tripunctata* Tasmania p. 98, spp. n. figs., EDWARDS Encycl. ent. Sér. B II. Dipt. 7.

Coniomastix gen. n. p. 140, *montana* sp. n. Pamirs p. 141 fig., ENDERLEIN Dtsch. ent. Z. 1933.

Crocidium immaculatum sp. n. S. Africa p. 77, BEZZI Brotéria Sér. Zool. 20 1922.

Cyllenina marginata further description p. 107, PARAMONOV Stylops 3.

Diplocampta roederi see *Neodiplocampta*.

Dischistus giganteus Villen. status discussed p. 182, VILLENEUVE Rev. franç. Ent. 1.

Doddosia gen. n., *picta* sp. n. Australia p. 103 fig., EDWARDS Encycl. ent. Sér. B II. Dipt. 7.

Dumontiella see *Prorachthes*.

Eurycarenum chilensis sp. n. Chile p. 25, PARAMONOV Konowia 13.

Exoprosopa (*Acrodisca*, *Metapenta* subgen. n. p. 139); *parvula* n. n. for *parva* Ric. nec Lw. p. 159, BEZZI Ann. S. Afr. Mus. 18 1921.—*E. loewiana* sp. n. Africa p. 279, BEZZI Bombyl. Ethiopian Reg. 1924.—*E. anomala* p. 68, *xanthina* p. 69, spp. n. U.S.A., PAINTER J. Kans. ent. Soc. 7.—*E. sytshuana* ♀; *vassiljevi* ♂ p. 3, PARAMONOV Ark. Zool. 26A no. 4.

Geron semifuscus sp. n. Natal p. 15 fig., SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Gnumyia gen. n. p. 82, *brevirostris* sp. n. S. Africa p. 83, BEZZI Ann. S. Afr. Mus. 18 1921.

Hemipenthes durvillei p. 28, *minas* p. 29 further descriptions, PARAMONOV Konowia 13.

Hyperalonia flavofasciata ♂ ♀ p. 1, PARAMONOV Ark. Zool. 26A no. 4.—*H. oenomaus* var. n. *flora* Flores p. 318, FREY Rev. suisse Zool. 41.

Legnotomyia persica sp. n. Persia, Mesopotamia p. 107, PARAMONOV Stylops 3.

Macrocondyla status p. 103, *transandina* p. 105, *haywardi* p. 106 Argentina, *manca* S. America p. 107, *bigoti* Chile p. 109, spp. n. figs., EDWARDS Encycl. ent. Sér. B II. Dipt. 7.

Mariobezzia key p. 109, PARAMONOV Stylops 3.

Metapenta subgen. n. see *Exoprosopa*.

Neodiplocampta gen. n. for *Diplocampta roederi* Currn. pp. 193, 200, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Oncodocera patula, *ampla*, *plana*, *tendens* see *Oncodosia*.

Oncodosia gen. n. for *Oncodocera patula* Wlk. (type) p. 101, *ampla* Wlk., *plana* Wlk., *tendens* Wlk. p. 102 figs., EDWARDS Encycl. ent. Sér. B. II. Dipt. 7.

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Pantostomus gen. n., *gibbiventris* sp. n. S. Africa p. 79, BEZZI Brotéria Sér. Zool. 20 1922.

Paranthracina n. n. for *Paranthrax* Param. nec Big. p. 27, PARAMONOV Konowia 13.

Paranthrax see *Paranthracina*.

Petrorossia funebris sp. n. Timor p. 320, FREY Rev. suisse Zool. 41.

Phthiria pubescens sp. n. S. Africa p. 77, BEZZI Brotéria Sér. Zool. 20 1922.

Platypygus criticism of Engel's treatment in "Flieg. Pal. Reg." pp. 10-21, *melleus* Lw., *algius* Param. p. 11, *maculiventris* Lw. (♀) p. 13, *singularis* Ség. p. 15 distinct; *melinoproctus* further description p. 17; *kurdorum* var. n. *persicus* Persia p. 18, PARAMONOV Konowia 13.

Plesiocera biumbonata sp. n. S. Africa pp. 81, 83, BEZZI Brotéria Sér. Zool. 20 1922.

Prorachthes Lw. (= *Dumontiella* Séguy), *longirostris* Bezzi (= *crassipalpis* Villen.) p. 108, PARAMONOV Stylops 3.

Pteraulax braunsi sp. n. S. Africa p. 81, BEZZI Brotéria Sér. Zool. 20 1922.

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Systropus marshalli biology p. (26) figs., SEYDEL Rev. Zool. Bot. afr. 26.—*S. quadripunctatus* sp. n. Madagascar p. 72, SÉGUY Encycl. ent. Sér. B II. Dipt. 7.

Thyridanthrax sven-hedini sp. n. Mongolia p. 4, PARAMONOV Ark. Zool. 26A no. 4.

Tomomyza barbatula, *pallipes* spp. n. S. Africa p. 80, BEZZI Brotéria Sér. Zool. 20 1922.

Toxophora verona sp. n. Br. Guiana p. 363, CURRAN Bull. Amer. Mus. n.H. 66.—*T. seyrigi* sp. n. Madagascar p. 366 fig., SÉGUY Terre et la Vie, Paris 4.

Walkeromyia gen. n. for *Anthrax luridus* Wlk. p. 23, ♀ p. 24, PARAMONOV Konowia 13.

EMPIDAE.

Apalocnemis sanguineus sp. n. Queensland p. 173 fig., HARDY Proc. Linn. Soc. N.S.W. 59.

Drapetis quadrispina p. 61, *ghesquierei* p. 63, spp. n. Belgian Congo, key p. 65 figs., COLLART Bull. Ann. Soc. ent. Belg. 74.

Empis key to males of *tenuirostris* group p. 176; *alata* p. 177, *waterhousei* Australia, *tibialis* Tasmania p. 178 spp. n. Australia, HARDY Proc. Linn. Soc. N.S.W. 59.—*E.* (subgen. n. *Haplomerinx* p. 86, *Pterempis* p. 87), BEZZI Dtsch. ent. Z. 1909 Beih.

Haplomerinx subgen. n. see *Empis*.

Pterempis subgen. n. see *Empis*.

DOLICHOPODIDAE.

Study of the types of exotic Dolichopodids of F. Walker in the Br. Mus., PARENT Ann. Mag. n.H. (10) 13 pp. 1-38, 70 figs.

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Campsicnemus magius feet of ♂ p. 160 fig., PARENT Bull. Soc. linn. Lyon (N.S.) 3.

Chrysosoma alutiferum sp. n. Singapore p. 37 figs., PARENT Ann. Mag. n.H. (10) 13.—*C. aestimabile* p. 113, *benignum* 115 S. Nigeria, *angolense* Angola p. 113, *asperum* Cape Province p. 114, *cilifemoratum* Nyasaland p. 115, *conjectum* Ashanti p. 116, *njalense* Sierra Leone p. 118 spp. n.; *gemmarium* further description figs., PARENT Bull. Soc. ent. Egypte 18.—*C. persplendidum* sp. n. Java p. 321, FREY Rev. suisse Zool. 41.—*C. arrogans* p. 113, *excellens* p. 114, *leverii* p. 115, *obscuripes* p. 117 Solomon Is., *loriferum* Colombia p. 116, spp. n. figs., PARENT Encycl. ent. Sér. B II. Dipt. 7.

Chrysotimus metallicus sp. n. Omilteme p. 135 fig., PARENT t.c.

Chrysotus corbieri Costa Rica, *elongatus* Azores p. 132, *ovalicornis* Paraguay p. 133, spp. n. figs., PARENT t.c.—*C. arduus* E. Nigeria, *lobipes* Cape Province, spp. n. p. 124 figs., PARENT Bull. Soc. ent. Egypte 18.

Condyllostylus degener sp. n. Natal p. 119 figs., PARENT t.c.—*C. cavi* India, *moniliventris* Ecuador p. 119, *productipes* Colombia p. 121, *saccicauda* Paraguay p. 122, spp. n. figs., PARENT Encycl. ent. Sér. B II. Dipt. 7.—*C. cancer* p. 366, *barbipes* p. 367, *fuscipennis* p. 369, *latifacies* p. 370 Br. Guiana, *cinctiventris* Colombia p. 371, spp. n., VAN DUZEE Bull. Amer. Mus. n.H. 66.

Dactylonotus gen. n. p. 136, *grandicornis* sp. n. Zululand p. 137 figs., PARENT Bull. Soc. ent. Egypte 18.

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Aphelogaster gen. n. (nr. *Wagneria*) p. 22, *coracella* sp. n. S. America p. 23 fig., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Aplomyia latimana sp. n. Ruwenzori p. 409, VILLENEUVE Rev. Zool. Bot. afr. 25.

Aplomyiopsis see *Synaplomyia*.

Apollenia tristis ♂ p. 73; *psophis* sp. n. Mozambique p. 74, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Apostrophus anthophilus in Canada p. 35 figs., GREENE Proc. ent. Soc. Wash. 36.

Araucosimus gen. n. (nr. *Cnephalia*), *bullocki* sp. n. Chile p. 88, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Archytas synonymy p. 133, ALDRICH t.c.

Arctosoma gen. n. (nr. *Lypha*) p. 18, *nigripalpis* sp. n. S. America p. 19, ALDRICH t.c.

Aridalia gen. n. p. 459, *lateralis* sp. n. Panama p. 470, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Arrhinodexia eumorphophaga sp. n. Malaya p. 48, BARANOV Ent. NachrBl. 8.

Arrhinomyia tragica morphology, biology pp. 248–250 figs., ROSENBERG Bull. ent. Res. 25.

Asiocarcelia gen. n. type *Carcelia caudata* Bar.; *pseudocaudata* sp. n. no locality p. 407, BARANOV Trans. R. ent. Soc. Lond. 82.

Ateloglutus gen. n. (nr. *Wagneria*) p. 24, *chilensis* Brèth. from *Phorichaeta*; *ruficornis* (type), p. 25, *nitens* p. 26, spp. n. S. America, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Athyrsia atypica sp. n. Solomons p. 183 fig., BARANOV Stylops 3.

Austromacquartia gen. n. for *Macquartia claripennis* Mall. p. 248, TOWNSEND J. N.Y. ent. Soc. 42.

Austrotaurocheta see *Admontia*.

Azulihoughia gen. n. (nr. *Bolohoughia*), *amazonica* sp. n. S. America p. 401, TOWNSEND Rev. ent. Rio de J. 4.

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Bactromyia fransseni sp. n. Java, Ceylon p. 45, BARANOV Ent. NachrBl. 8.

Belvosielia gen. n. (nr. *Belvosia*), *funditor* sp. n. Br. Guiana p. 518, CURRAN Bull. Amer. Mus. n.H. 66.

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Beria erula sp. n. Portuguese E. Africa p. 68, SÉGUY t.c.

Blepharipa politana sp. n. Peru p. 132, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further description p. 340, TOWNSEND Proc. U.S. nat. Mus. 43 1912.

Brachymasicera gen. n. (Masiceratinae) *polita* sp. n. Peru pp. 133, 143, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further descriptions pp. 340-341, TOWNSEND Proc. U.S. Nat. Mus. 43 1912.

Cadurcia leefmansi sp. n. Java p. 153 fig., BARANOV Treubia 14 1933.—*C. leefmansi* ♂ p. 44, BARANOV Ent. NachrBl. 8.

Caenisomopsis gen. n. (nr. *Caenisoma*), *paraensis* sp. n. S. America p. 398, TOWNSEND Rev. Ent. Rio de J. 4.

Calodexia revision 21 pp., key p. 3, *aldrichi* Brazil p. 4, *fasciata* p. 5, *dives* p. 6, *bella* p. 8, *interrupta* p. 9, *continua* p. 10, *major* p. 12, *agilis* p. 13, *venteris* p. 15, *caudata* p. 16, *apicalis* p. 17, *panamensis* p. 18, *varia* p. 20 Panama, *townsendi*, *fulvibasis* Peru p. 7, *bequaerti* Guatemala, *valera* Venezuela p. 19, spp. n. CURRAN Amer. Mus. Nov. no. 685.—*C. insolita* sp. n. Br. Guiana p. 506, CURRAN Bull. Amer. Mus. n.H. 66.

Canalia gen. n. p. 431, *fasciata* sp. n. Panama p. 466, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Carcelia key to allied gen. and spp. p. 389, *malayana* sp. n. Malaya p. 404 fig., BARANOV Trans. R. ent. Soc. Lond. 82.—*C. laxifrons* biology p. 373, PROPER J. agric. Res. 48.—*C. hirsuta* see *Myxocarcelia*: *octava* see *Carceliella*; *septima* see *Microcarcelia*; *caudata* see *Asiocarcelia*.

Carceliella gen. n. type *Carcelia octava* Bar. p. 398, BARANOV Trans. R. ent. Soc. Lond. 82.

Carceliocephala gen. n. (nr. *Sisyrhoughia*), *crypta* sp. n. S. America p. 402, TOWNSEND Rev. Ent. Rio de J. 4.

Catabucentes gen. n. (nr. *Bucentes*) p. 71, *abdominalis* sp. n. Egypt p. 72, VILLENEUVE Rev. Zool. Bot. afr. 26.

Catacarcelia rondaniella sp. n. Formosa p. 392, BARANOV Trans. R. ent. Soc. Lond. 82.

Centeter unicolor bionomics pp. 466-491 fig., PARKER J. econ. Ent. 27.

Ceracia synonymy p. 136, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Ceratomyiella revision of American spp. pp. 10-17, key p. 11, *bicincta* p. 13, *orbitalis* p. 16, spp. n. U.S.A., REINHARD Proc. U.S. nat. Mus. 83 no. 2973.

Chaetexorista javana biology p. 374, PROPER J. agric. Res. 48.

Chaetonalia gen. n. p. 431, *lateralis* sp. n. Panama p. 465, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Chiloepalpus aurea Aldr. from *Cuphocera* p. 70, REINHARD Proc. U.S. nat. Mus. 83 no. 2974.

Chrysodoria gen. n. (nr. *Nepocarcelia*), *chalcos* sp. n. S. America p. 402, TOWNSEND Rev. Ent. Rio de J. 4.

Clastoneura gen. n. p. 26, *brevicornis* sp. n. S. America p. 27 fig., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Cnephalodes gen. n. (Salmacinae), *pollinosus* sp. n. Peru p. 145, TOWNSEND Ann. ent. Soc. Amer. 4 1911 [see *Cnephalodopsis* Z.R. 49 1912 p. 408.]

Collatia gen. n. p. 423 for *Zenillia submissa* Aldr. & Web. p. 464, CURRAN Fem. Genn. N. Amer. Dipt. 1934.

Coloradalia gen. n. p. 444, *ocellaris* sp. n. Colorado p. 467, CURRAN t.c.

Comops gen. n. (nr. *Trichophoropsis*), *ruficornis* sp. n. S. America p. 40, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Compsilura concinnata biology p. 369, PROPER J. agric. Res. 48.

Conactiodoria gen. n. (nr. *Chaetodoria*) p. 402, *aurea* sp. n. Brazil p. 403, TOWNSEND Rev. Ent. Rio de J. 4.

Copecrypta nitens Wied. (= *Cuphocera ruficauda* Wulp) p. 70, REINHARD Proc. U.S. nat. Mus. 83 no. 2974.

Coracomysia gen. n. (nr. *Wagneria*) p. 21, *crassicornis* sp. n. S. America p. 22, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Corozalia gen. n. p. 429, *longula* sp. n. Panama p. 465, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Cossidophaga gen. n. for *Podomyia atkinsoni* Aubrtn. p. 161, BARANOV Encycl. ent. Sér. B II. Dipt. 7.

Craspedothrix pleskei p. 152, *aristata* spp. n. Russia, key p. 153, ROHDENDORF C.R. Acad. Sci. U.R.S.S. 1 1934.

Craticulina diffusa sp. n. Palestine p. 57, VILLENEUVE Konowia 13.

Cuparymyia gen. n. (nr. *Ptolilydella*), *anametopochaetoides* sp. n. S. America p. 397, TOWNSEND Rev. Ent. Rio de J. 4.

Cuphocera revision of American spp. pp. 45-70, key p. 47, *parksii* p. 50, *scutellaris* p. 53, *conformis* p. 54, *geminata* p. 55, *flavicornis* p. 58, *contigua* p. 61, *beameri* p. 66, *torosa* p. 67, *incongrua* p. 68 U.S.A., *buccata* Cuba p. 59 spp. n., REINHARD Proc. U.S. nat. Mus. 83 no. 2974.—*C. pretiosa* sp. n. Br. Guiana p. 521, CURRAN Bull. Amer. Mus. n.H. 66.—*C. pulchriceps* sp. n. S. America p. 128, ALDRICH Dipt. Patag. & S. Chile p. 7.—*C. ruficauda* see *Copecrypta*; *aurea* see *Chilocephalus*.

Cylindromyia revision of African spp. pp. 121-142, key p. 122, *ethelia* p. 126, *atypica* p. 140, *ugandana* p. 141 Uganda, *lavinia* S. Africa, *snelli* p. 129, *sensua* p. 133 Zanzibar, *incerta* Natal p. 132, spp. n. figs., CURRAN Ann. Mag. n.H. (10) 14.—*C. Mg.* (= *Melanocyptera* Towns., *Dolichocyptera* Ts.) p. 8, *atricauda* sp. n. Chile p. 10, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Cypselodopteryx n. n. for *Cypselodopteryx* Towns. preocc. p. 20, TOWNSEND Ent. News 45.

Cypselodopteryx see *Cypselodopteryx*.

Cyrrillia angustifrons larval morphology pp. 411-413, biology pp. 419-439 figs., THOMPSON Parasitology 26.

Dasyuromyia Big. (= *Selenomyia* B. & B.), key p. 156, *sarcophagidea* Big. (= *brevicornis* B. & B.) p. 159; *sternalis*, *tarsalis* p. 160, *aperta* p. 161, *nigriceps* p. 162, spp. n. S. America figs., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Dolobepharis gen. n., *nigra* sp. n. S. America p. 74, ALDRICH t.c.

Deuteromimtho subgen. n. see *Pseudomimtho*.

Dexia fervens see *Agriochaetops*.

Dexodes insignis p. 188, *conica* p. 189, spp. n. U.S.A., REINHARD Bull. Brooklyn ent. Soc. 29.

Diaphanomyia aurea Towns. distinct sp. p. 405, TOWNSEND Rev. Ent. Rio de J. 4.

Diaphoropeza peruana sp. n. Peru p. 147, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further description p. 308, TOWNSEND Proc. U.S. nat. Mus. 43 1912.

Doleschalla solomonensis sp. n. Solomons p. 182, BARANOV Stylops 3.

Dolichocyptera see *Cylindromyia*.

Dolichostoma Twms. (= *Erigonopsis* Twms.) p. 37 fig., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Ectophasiopsis arcuata Big. (= *pen-nipes* Br., *chilensis* Twms.) p. 12, ALDRICH t.c.

Embiomyia gen. n. (nr. *Amedoria*) p. 29, *australis* sp. n. S. America p. 30, ALDRICH t.c.

Enchomyia gen. n. for *Gonia erythro-cera* Big. p. 42, ALDRICH t.c.

Epaulophasia gen. n. (nr. *Elomya*), *officialis* sp. n. Brazil p. 207, TOWNSEND Rev. Ent. Rio de J. 4.

Epiphyllaphila gen. n. (nr. *Microchaetona*) type *yahuarmayana* Towns. pp. [errata 2] 234, 304, TOWNSEND Rev. Mus. paul. 15 1927.

Erigonopsis see *Dolichostoma*.

Ernestiopsis see *Lypha*.

Erviopsis gen. n. (nr. *Icelia*), *aurata* sp. n. Amazon p. 311, TOWNSEND Rev. Ent. Rio de J. 4.

Erycia bezzii sp. n. Malaya p. 44, BARANOV Ent. NachrBl. 8.—*E. flavitarsa* p. 191, *levata* p. 193, spp. n. U.S.A., REINHARD Bull. Brooklyn ent. Soc. 29.—*E. brunnescens* sp. n. Belgian Congo p. 69, VILLENEUVE Rev. Zool. Bot. afr. 26.

Eucarcelia gen. n., type *Tachina excisa* Fall.; *caspica* Caspian Sea p. 390 (note), *grossa* Formosa, *dammermani* Java p. 393, *indica* India p. 394 spp. n. figs., BARANOV Trans. R. ent. Soc. Lond. 82.

Eucelatoria australis sp. n. Peru p. 140, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further description p. 315, TOWNSEND Proc. U.S. nat. Mus. 43 1912.

Euleucomyia gen. n. (nr. *Mittoria*), *australis* sp. n. Brazil p. 202, TOWNSEND Rev. Ent. Rio de J. 4.

Eumyobia gen. n. (Pyrrhosiinae), *flava* sp. n. Peru p. 146, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further descriptions p. 312, TOWNSEND Proc. N.S. nat. Mus. 43 1912.

Eunotochaeta gen. n. (nr. *Ravinia*), *amazonica* sp. n. Amazon p. 203, TOWNSEND Rev. Ent. Rio de J. 4.

Eurystaea leveriana sp. n. Solomons p. 182, BARANOV Stylops 3.

Exorista quadrimaculata sp. n. Malaya, Sumatra, Ceylon p. 43, BARANOV Ent. NachrBl. 8.—*E. susurrans* see *Tricarcelia*.

Frauenfeldia rubricosa larval morphology pp. 407-411, biology pp. 419-439 figs., THOMPSON Parasitology 26.

Froggattimyia key p. 2, *wentworthi* p. 3, *fergusoni* p. 4, *nicholsoni* p. 5, *tillyardi*, *lasiophthalma* p. 6, spp. n. Australia, MALLOCH Proc. Linn. Soc. N.S.W. 59.

Frontina erythrocauda sp. n. Venezuela p. 516, CURRAN Bull. Amer. Mus. n.H. 66.

Galapagosia gen. n. (nr. *Stomatodexia*) p. 171, *minuta* sp. n. Galapagos Is. p. 172, CURRAN Proc. Calif. Acad. Sci. (4) 21.

Ganopleuron gen. n. p. 118, *divergens* sp. n. S. America p. 119, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Ganoproctus gen. n. (nr. *Comops*), *argentifer* (type) p. 36, *longicornis* p. 37, spp. n. S. America, ALDRICH t.c.

Geneodes gen. n. (nr. *Myobiopsis*), *griseus* sp. n. S. America p. 394, TOWNSEND Rev. Ent. Rio de J. 4.

Germaria violaceiventris sp. n. Pamirs p. 132, ENDERLEIN Dtsch. ent. Z. 1933.

Goliathocera see *Lispipea*.

Gonia erythrocerca see *Enchomyia*.

Gymnocamptops griseus Towns. (= *Agriochaeta aureostrigata* End.) good sp. p. 204, TOWNSEND Rev. Ent. Rio de J. 4.

Gymnodexia atkinsoni sp. n. Burma p. 49, BARANOV Ent. NachrBl. 8.

Gymnoglossa munroi sp. n. Transvaal p. 25, CURRAN Amer. Mus. Nov. no. 751.

Hapalioloemus gen. n., *machaeralis* sp. n. India p. 162, BARANOV Encycl. ent. Sér. B II. Dipt. 7.

Heliaeae gen. n. (nr. *Thelaira*), *mirabilis* sp. n. Venezuela p. 517, CURRAN Bull. Amer. Mus. n.H. 66.

Heliolydella gen. n. (nr. *Parastauferia*), *homoconychioides* sp. n. Brazil p. 210, TOWNSEND Rev. Ent. Rio de J. 4.—See *Heliolydellops*.

Heliolydellops n. n. for *Heliolydella* Towns. 1934 nec 1926 p. 405, TOWNSEND t.c.

Helioplagia gen. n. (nr. *Chlorophryno*), *amazonica* sp. n. Amazon p. 211, TOWNSEND t.c.

Hemidegeeria villeneuvei sp. n. Burma p. 44, BARANOV Ent. NachrBl. 8.

Heyneophasia gen. n. (nr. *Tayloria*), *heynei* sp. n. Costa Rica p. 208, TOWNSEND Rev. Ent. Rio de J. 4.

Homogenia see *Trichopododes*.

Homohexamera gen. n. for *Protohystricia huttoni* Mall. p. 247, TOWNSEND J. N.Y. ent. Soc. 42.

Hyalomyia key to Patagonian spp., synonymy p. 13, *metallica*, *glauca* Patagonia p. 15, *curvipes* Chile p. 16, spp. n. fig., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Hyosoma gen. n. p. 139, *limbisquama* sp. n. S. America p. 140 fig., ALDRICH t.c.

Icterocodexia gen. n. (nr. *Minthodexiopsis*), *aristata* sp. n. S. America p. 391, TOWNSEND Rev. Ent. Rio de J. 4.

Incamyia key to Patagonian spp. p. 65, *nuda* sp. n. S. America p. 66, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Isocarceliopsis gen. n., *hemimacquartioides* sp. n. Formosa p. 406, BARANOV Trans. R. ent. Soc. Lond. 82.

Jaynesleskia gen. n. for *Leskiomima jaynesi* Aldr. p. 395, TOWNSEND Rev. Ent. Rio de J. 4.

Kosempomyiella gen. n. (Phasiini), *rufiventris* sp. n. Formosa p. 165, BARANOV Encycl. ent. Sér. B II. Dipt. 7.

Lasionalia gen. n. p. 437, *cinerea* sp. n. Minnesota p. 467, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Leskiomima jaynesi see *Jaynesleskia*.

Leucostoma synonymy p. 28, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Leverella gen. n. p. 473, *instituti-imperialis* (type) Solomon Is., *novae-guineae* New Guinea, spp. n. p. 474 fig., BARANOV Vet. Arhiv 4.

Linnaemyia key to African spp. p. 6, *agilis* E. & S. Africa p. 8, *strigipes* Cape Province p. 9, *neavei* Portuguese E. Africa p. 10, *luckmani* p. 11, *nyasa* p. 12, *ethelia* p. 14, *gowdeyi* p. 16, *shillitoi* p. 17, *torensis*, *bequaerti* p. 18, *ingrami* (also S. Africa) p. 23 E. Africa, *lamborni* S. Nigeria p. 13, *victoria* S. Rhodesia, Uganda p. 16, *aptus* Uganda, Nigeria, Sudan, Gold Coast p. 19, *cuthbertsoni* S. Rhodesia p. 21, *andersoni* S. Rhodesia, E. Africa p. 24, spp. n.; *vulpinus* Fall. (= *variegata* Wied.) p. 20, CURRAN Amer. Mus. Nov. no. 751.—*L. obscurior* S. and E. Africa p. 409, *pulchella* S. Nigeria p. 410, spp. n., VILLENEUVE Rev. Zool. Bot. afr. 25.—*L. nigrifacies* sp. n. Pamirs p. 131, ENDERLEIN Dtsch. ent. Z. 1933.

Lispidea Coq. (= *Plectops* Coq., *Goliathocera* Twms., *Phylacteropoda* Ts., *Nephopteropsis* Ts., *Lophosciocera* Ts., *Plectopsis* Ts.) p. 75, key to Patagonian

spp., *triangularis* p. 76, *vibrissata*, *atra* p. 78, *rotundata*, *interrupta* p. 79, *frontalis* p. 80, spp. n. S. America figs., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Litophasia albisquama see *Alitophasia*.

Lixophaga plumbea see *Prolixophaga*.

Lophosciocera see *Lispidea*.

Lydella pulchella p. 510, *frugale*, *prudens*, *verticale* p. 511, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Lygaeomyia gen. n. p. 143, *tristis* sp. n. S. America p. 144 fig., ALDRICH Dipt. Patag. & S. Chile pt. 7.

Lypha R.-D. (= *Ernestiopsis* Towns.) p. 51, key to Patagonian spp. p. 52, *edwardsi* p. 53, *truncata* p. 55, *ornata* p. 56, *angolensis* p. 58, *chaetosa*, *liturata* p. 59, *orbitalis* p. 60, *corax* p. 61, *longicornis*, *noctifer* p. 62, spp. n. S. America figs., ALDRICH t.c.

Macquartia pruthenica sp. n. Rumania p. 489, ŠUSTER Ann. sci. Univ. Jassy 18 1933.—*M. claripennis* see *Austromacquartia*; *vexata* see *Mallochomacquartia*.

Mallochomacquartia gen. n. for *Macquartia vexata* Hutt. p. 247, TOWNSEND J. N.Y. ent. Soc. 42.

Melaleuca potens sp. n. Br. Guiana p. 501, CURRAN Bull. Amer. Mus. n.H. 66.

Melanocyptera see *Cylindromyia*.

Melanophora roralis larval morphology pp. 398-401, biology pp. 419-439 figs., THOMPSON Parasitology 26.

Melanorophasia gen. n. (nr. *Acaulona*) *minuscula* sp. n. Brazil p. 205, TOWNSEND Rev. Ent. Rio de J. 4.

Mellachnus gen. n., *velutinus* sp. n. S. America p. 41, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Metopomuscopteryx shannoni sp. n. S. America p. 46, ALDRICH t.c.

Microcarcelia gen. n. type *Carcelia septima* Bar. p. 400, BARANOV Trans. R. ent. Soc. Lond. 82.

Microchaetonops gen. n. (nr. *Pseudochaetona*) p. 391, *medinops* sp. n. S. America p. 392, TOWNSEND Rev. Ent. Rio de J. 4.

Micromasiphya gen. n. (nr. *Siphosturmiopsis*), *curta* sp. n. S. America p. 399, TOWNSEND t.c.

Microphthalma lativentris sp. n. Br. Guiana p. 497, CURRAN Bull. Amer. Mus. n.H. 66.

Microtownsendia gen. n. p. 463, *nitens* sp. n. Panama p. 471, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Mikia magnifica new to Russia, morphology pp. 184-191 figs., ZIMIN Rev. Ent. U.R.S.S. 25 1933.

Mintholeskia gen. n. (nr. *Trochiloglossa*), *melanopyga* sp. n. Brazil p. 395, TOWNSEND Rev. Ent. Rio de J. 4.

Morphodexia key p. 147, *nigra* (with var. n. *subaenea*), *clausa* p. 149, *palpalis* p. 150, spp. n. S. America, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Myiofijia gen. n., *bezziana* sp. n. Fiji p. 478 fig., BARANOV Vet. Arhiv 4.

Myiopharus subaeneus p. 63, *pirioni* p. 64, spp. n. Chile, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Myiophasia difficilis p. 166, *antennalis* p. 167, *solitaria* p. 168, spp. n. S. America, ALDRICH t.c.

Myobia penaltis p. 508, *verna* p. 509, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Myxocarcelia gen. n. type *Carcelia hirsuta* Bar. p. 398, BARANOV Trans. R. ent. Soc. Lond. 82.

Nemoraea aurifrons, *bipartita* spp. n. China p. 150, MALLOCH Peking n.H. Bull. 9.

Neoxynops gen. n. (nr. *Thelyoxynops*), *nana* sp. n. S. America p. 403, TOWNSEND Rev. Ent. Rio de J. 4.

Nephochaetopteryx gen. n. (nr. *Micronotochaeta*), *pallidiventris* sp. n. Amazon p. 203, TOWNSEND t.c.

Nephoteropsis see *Lispidea*.

Notodytes gen. n. p. 163, *variabilis* (type) p. 164, *major*, *aurea* p. 165, spp. n. S. America, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Notomanes gen. n. for *Tachina maura* Wlk. (= *basalis* Wlk.) p. 93, ALDRICH t.c.

Ocyptera reinigi sp. n. Pamirs p. 132, ENDERLEIN Dtsch. ent. Z. 1933.

Ommasicerca gen. n. (Masiceratinae), *chaetosa* sp. n. Peru p. 145, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further description pp. 337-338, TOWNSEND Proc. U.S. Nat. Mus. 43 1912.

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Ophirodexia gen. n. (Pseudodexiinae), *pulchra* sp. n. Peru p. 134, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further descriptions pp. 307-308, TOWNSEND Proc. U.S. Nat. Mus. 43 1912.

Ophirosturmia gen. n. (Masiceratinae), *cincta* sp. n. Peru p. 133, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further descriptions pp. 335-336, TOWNSEND Proc. U.S. Nat. Mus. 43 1912.

Ormia nocturna p. 495, *guianica* p. 496, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Orohoughia gen. n. (nr. *Hypertrophomma*), *aurata* sp. n. S. America p. 403, TOWNSEND Rev. Ent. Rio de J. 4.

Oxynopsalia gen. n. p. 444, *nitida* sp. n. Panama p. 468, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

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Paratachina vulpecula see *Wulpitachina*.

Paratactopsis setosa Towns. distinct sp. p. 405, TOWNSEND Rev. Ent. Rio de J. 4.

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Patillalia gen. n. p. 459, *fasciata* sp. n. Panama p. 469, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

Peleteria synonymy p. 119, *filipalpis* Rond. (= *inca* Curr.) p. 120; *sordida* sp. n. Chile p. 122, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Pelixia gen. n. (nr. *Winthemia*), *vexans* sp. n. Br. Guiana p. 512, CURRAN Bull. Amer. Mus. n.H. 66.

Pelycops gen. n. p. 168, *darwinii* sp. n. S. America p. 169, ALDRICH Dipt. Patag. & S. Chile pt. 7.

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Philophilopsis dolichotarsis p. 504, *tenuifrons* p. 505, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Phorichaeta chilensis see *Atelognathus*.

Phorocera key to Patagonian spp. p. 69, *bullocki* p. 70, *negrensis* p. 72, *calyptrata* p. 73, spp. n. S. America, ALDRICH Dipt. Patag. & S. Chile pt. 7.—*P. omisssa* sp. n. Texas p. 193, REINHARD Bull. Brooklyn ent. Soc. 29.—*P. pluto*, *guianica* spp. n. Br. Guiana p. 513, CURRAN Bull. Amer. Mus. n.H. 66.—*P. magna* ♂ ♀ p. 46, BARANOV Ent. NachrBl. 8.

Phylacteropoda see *Lispidea*.

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Phytomyptera lacteipennis sp. n. Suez p. 71, VILLENEUVE Rev. Zool. Bot. afr. 26.

Planomyia gen. n. (nr. *Lispidea*), *browni* sp. n. Chile p. 129, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Plectops manca sp. n. U.S.A. p. 31 figs., GREENE Proc. ent. Soc. Wash. 36.—See *Lispidea*.

Plectopsis see *Lispidea*.

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Podomyia atkinsoni see *Cossidophaga*.

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Prolixophaga gen. n. for *Lixophaga plumbea* Aldr. p. 404, TOWNSEND t.c.

Prolypha gen. n. (nr. *Lypha*), *palmarum* sp. n. Brazil p. 210, TOWNSEND t.c.

Promasipoda gen. n. (nr. *Hemimasipoda*), *pinguoides* sp. n. S. America p. 399, TOWNSEND t.c.

Prosopochaeta anomala sp. n. S. America p. 118, ALDRICH Dipt. Patag. & S. Chile pt. 7.

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Schizotachina ruficornis sp. n. Florida p. 33 fig., GREENE t.c.

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Selenomyia see *Dasyuromyia*.

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Setolestes gen. n. (nr. *Hyosoma*), *genalis* sp. n. S. America p. 142, ALDRICH Dipt. Patag. & S. Chile pt. 7.

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Stevenia inops sp. n. Palestine p. 54, VILLENEUVE Konowia 13.

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Tapajomintho gen. n. (nr. *Actinochaetopsis*), *nigriventris* sp. n. S. America p. 394, TOWNSEND t.c.

Tapajosia gen. n. (nr. *Cylindrophasia*), *urucurytuba* sp. n. Brazil p. 205, TOWNSEND t.c.

Telodytes gen. n. (nr. *Lypha*), *analisis* sp. n. S. America p. 50, ALDRICH Dipt. Patag. & S. Chile pt. 7.

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Tricholyga *psychidarum* sp. n. Sumatra, Malaya p. 47, BARANOV Ent. NachrBl. 8.—*T. sorbillans* morphology, biology pp. 43–52 figs., ISHIKAWA Dobuts. Zasshi 46.

Trichopododes n. n. for *Homogenia* Wulp nec *Homogenes* Thoms. p. 166, TOWNSEND Canad. Ent. 25 1893.

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Uruleskia gen. n. (nr. *Cystometopia*), *aurescens* sp. n. S. America p. 397, TOWNSEND t.c.

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Xanthobasis gen. n. p. 110, *angustifrons* (type) p. 111, *pollinosa*, *unicolor* p. 112, spp. n. S. America, ALDRICH Dipt. Patag. & S. Chile pt. 7.

Xanthochaetona gen. n. (nr. *Pretoriomyia*) p. 392, *similis* sp. n. S. America p. 393, TOWNSEND Rev. Ent. Rio de J. 4.

Xanthomelana see *Xanthomelanodes*.

Xanthomelanodes n. n. for *Xanthomelana* Wulp nec Mart. p. 167, TOWNSEND Canad. Ent. 25 1893.—*X. peruanus* sp. n. Peru p. 128, TOWNSEND Ann. ent. Soc. Amer. 4 1911; further description p. 302, TOWNSEND Proc. U.S. nat. Mus. 43 1912.

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Xanthotrichius gen. n. (nr. *Ochrophasia*), *xenos* sp. n. Brazil p. 209, TOWNSEND Rev. Ent. Rio de J. 4.

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Zuanalia gen. n. p. 457, *azurea* sp. n. Panama p. 468, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

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(including SARCOPHAGIDAE).

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Achaetocephalon subgen. n. see *Miltogramma*.

Adichosina gen. n. (Calliphorinae) p. 186, (*Gymnadichosia*) *novella* Nyasaland p. 185, (*G.*) *thoracica* (type) Kamerun p. 186 spp. n., VILLENEUVE Bull. Ann. Soc. ent. Belg. 74.

Adiscochaeta End. (= *Squamata* Curr. & Wall. nom. nud.) p. 489, CURRAN & WALLEY Bull. Amer. Mus. n.H. 66.

Africasia gen. n. (Sarcophagidae), *oestroidea* sp. n. Egypt p. 15 fig., ROHDENDORF Bull. Soc. ent. Egypte 18.

Agria condona sp. n. Cape Province p. 5 fig., CURRAN Amer. Mus. Nov. no. 727.

Aldrichiella see *Aldrichina*.

Aldrichina n. n. for *Aldrichiella* Rohd. nec Hend. p. 111, TOWNSEND Rev. Ent. Rio de J. 4.

Anthracomia melanoptera see *Disticheria*; *nitida* see *Paramedoria*.

Apodacra dasystigma p. 7, *stenorhina* p. 8, *aegyptiaca* p. 9, spp. n. Egypt ROHDENDORF Bull. Soc. ent. Egypte 18.

Araba leucocephala see *Eremoparia*; *stelviana* see *Pariosticha*.

Arachnidomyia gen. n. for *Sarcophaga davidsoni* Coq. p. 111, TOWNSEND Rev. Ent. Rio de J. 4.

Arhopocnemis gen. n. for *Arhopocnemis boetcheri* Enderl. p. 188, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Arhopocnemis boetcheri see *Arhopocnemis*.

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Dyscritomyia terryi sp. n. Hawaii p. 419 fig., BRYAN Proc. Hawaii. ent. Soc. 8.

Efflatounomyia gen. n. (Sarcophagidae) p. 4, *albidopilosa* (type) p. 5, *pardalina* p. 6, spp. n. Egypt figs., ROHDENDORF Bull. Soc. ent. Egypte 18.

Eremoparia gen. n. for *Araba leucocephala* Jaenn. p. 189, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Erioprocta gen. n. for *Setulia melanura* Mg. p. 189, ENDERLEIN t.c.

Eubracia gen. n. for *Wohlfahrtia argentea* Macq. p. 189, ENDERLEIN t.c.

Eufletcherimyia gen. n. (Stephanostomatini), *aurea* sp. n. Brazil p. 111, TOWNSEND Rev. Ent. Rio de J. 4.

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Helicobia guianica sp.n. Br. Guiana p. 479, CURRAN & WALLEY t.c.—*H. alerta* p. 24, *selene*, *monroi* (also *S. Rhodesia*) p. 25, spp. n. S. Africa figs., CURRAN Amer. Mus. Nov. no. 727.

Hemibracia gen. n. (Agriinae), *aschersoni* sp. n. no locality p. 189, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

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Juquianicia gen. n. (Metopiini), *juquiana* sp. n. Brazil p. 112, TOWNSEND Rev. Ent. Rio de J. 4.

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Mesembrinella incompleta sp. n. Br. Guiana p. 470, CURRAN Bull. Amer. Mus. n.H. 66.—*M. bellardiana* biology p. 110, TOWNSEND Rev. Ent. Rio de J. 4.

Metopia campestris see *Udamomitra*.

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Miltogrammoides efflatouniana sp. n. Egypt p. 12, ROHDENDORF Bull. Soc. ent. Egypte 18.

Morinia digramma see *Cerodesma*.

Nannosetulia gen. n. (Miltogrammatinae), *pygmaea* sp. n. no locality p. 189, ENDERLEIN S.B. Ges. naturf. Fr. Berlin 1934.

Ouelletia gen. n. (Metopiinae) p. 407,
aristalis sp. n. Quebec p. 410, CURRAN
Fam. Genn. N. Amer. Dipt. 1934.

Pachycosmina gen. n. (Calliphoridae),
oestracea (type) p. 18, *pichoni* p. 20
China, *phenice* Bhutan p. 21, spp. n.
figs., SÉGUY Encycl. ent. Sér. B II.
Dipt. 7.

Pamirella gen. n. (Sarcophagidae)
p. 133, *karakulensis* sp. n. Pamirs
p. 134, ENDERLEIN Dtsch. ent. Z.
1933.

Pandellea gen. n. for *Wohlfahrtia*
hungarica B.B. p. 189, ENDERLEIN
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p. 186, *luteola* sp. n. E. Africa p. 187,
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sp. n. Belgian Congo p. 70 fig.,
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p. 169, *williamsi* p. 170, spp. n.
Galapagos Is. fig., CURRAN Proc.
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p. 6, *fasciventris*, *binodosa* p. 7,
gnu p. 8, *vicaria* p. 9, *chapini* p. 10,
langi p. 12, *burungae* p. 14, *inzi*,
mulaba p. 16, *afra* p. 18, *momba*
alina p. 19, *kisangani* p. 20, *bulamatadi*
surda p. 21, *inducta* p. 22 Belgian
Congo, *villa* S. Rhodesia, Natal p. 9,
liberia p. 11, *dura* p. 12 Liberia, *samia*
p. 11, *arno* p. 14, *garbo* p. 15 Belgian
Congo, Liberia, *musitali* Belgian Congo,
Kamerun p. 17 spp. n. figs., CURRAN
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gaster, *clotho* p. 482 (with var. n.
impura), *pallidipilosa* p. 483, *anguilla*
p. 484, *bartica*, *collusor* p. 485, *excitans*
p. 486, *mentor*, *kartabo* p. 487,
molitor, *fringidea* p. 488, *intona* p. 489,
spp. n. Br. Guiana, CURRAN & WALLEY
Bull. Amer. Mus. n.H. 66.—*S. schützei*
biology, ecology pp. 12-19 figs.,
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pharaois sp. n. Egypt p. 2,
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abdomen and ♂ ♀ terminalia figs.,
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bazini p. 26, *concreata* p. 27, spp. n.

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Helina key p. 301, *viola* p. 303, *xena* p. 305, *bifimbriata* p. 307 (with varr. n. *basalis*, *grisea* p. 308), *connexa*, *simplex* p. 309, *rufoapicata* p. 310, *fulvocalyprata* p. 311, *bigoti*, *chilensis* p. 312, spp. n. S. America figs., MALLOCH t.c.

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Hydrophoria arctica see *Acroptena frontata*.

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Myopina appendiculata see *Myopella*.

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Neurotrixa see *Steinella*.

Notoschoenomyza gen. n., *chrysiceps* (type) p. 259, *sulfuriceps* p. 261 spp. n.; *immaculata* Wlk. from *Anthomyia* p. 260 figs., MALLOCH Dipt. Patag. & S. Chile pt. 7.

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Raymondomyia gen. n. (Coenosiinae) p. 228, *flavipalpis* sp. n. S. America p. 229 fig., MALLOCH Dipt. Patag. & S. Chile pt. 7.

Reynoldsia gen. n. (Coenosiinae), key and scope p. 230, *trochanterata*, *brevitarsis* p. 233, *scutellata* p. 234, *pectinata* (type) p. 235, *coxata* p. 236, *pteropleuralis* p. 237, *rufoapicata* p. 239, spp. n. S. America figs., MALLOCH t.c.

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armipes, *albomedia* p. 266, *biseriata* p. 267, *albiceps* p. 268, *lativittata* p. 269, *fuscifacies* p. 270, *bella*, *apicalis* p. 271, *evittata* p. 272, *argyriceps* p. 273, spp. n. S. America figs., MALLOCH Dipt. Patag. & S. Chile pt. 7.

Schoenomyzina gen. n. p. 273, *pallicornis* (type) p. 274, *triangularis* p. 275, *fuscicosta* p. 276, spp. n. S. America figs., MALLOCH t.c.

Spathipheromyia key p. 253, *chilensis* p. 254, *albiceps* p. 255, *magellani* p. 256, *insularis* p. 257, *atra* p. 258, spp. n. S. America figs., MALLOCH t.c.

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scription p. 127; *submaculatus* p. 130,
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diversa p. 446, *luteipennis*, *claripennis*,
scutellata p. 447, spp. n. Br. Guiana,
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Earomyia.

Dasyops (*Psilolonchaea* subgen. n.
p. 9), *latiterebra* sp. n. Siberia p. 10,
CZERNY in LINDNER Flieg. Pal. Reg.
43.

Earomyia key p. 25, *laticeps* Lapland
(*Chaetolonchaea* subgen. n. p. 26),
brevipilosa Germany, *bracilis* Trans-
baikalia p. 27, spp. n., CZERNY in
LINDNER t.c.

Lonchaea key p. 11, *bukowskii*, *caricicola* p. 12, *corusca* p. 14 Russia, *contraria* p. 13, *setisquama* p. 19 Europe, *freyi*, *krogerusi* p. 15 Finland, *palpata* p. 17, *stigmatica* p. 20 Ussuri, (*Tricholonchaea* subgen. n.) *stackelbergi* Ussuri, Finland p. 21, spp. n. figs., CZERNY in LINDNER t.c.—*L. connexa* sp. n. France p. 179, SÉGUY Faune de France 28.—*L. parasita* sp. n. Mozambique p. 27, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

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Psilolonchaea subgen. n. see *Dasyops*.

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Prohypotyphla gen. n.; key to spp. p. 149, *maculipennis*, *omissa* sp. n. 150, *scalaris* (type) p. 151 E. Africa, *nigripennis*, *magnipalpis* p. 150, *ochracea* p. 151 Sierra Leone, *flavipes* Pretoria, *distans* Rhodesia, *obtusicornis* Kamerun p. 152, spp. n., HENDEL Encycl. ent. Sér. B II. Dipt. 7.

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Tephritoides subgen. n. see *Trypanea*.

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Hemicheta subgen. n. see *Poecilomyia*.

Poecilomyia gen. n. for *Calobata varia* Wied. (type) and others p. 96, key p. 97, *egregia* Brazil, Bolivia p. 98, *minor* Peru p. 101, *similis* Brazil spp. n.; *Hemicheta* subgen. n. p. 104 figs., HENNIG Stett. ent. Ztg. 95.

Ptilosphen key p. 314, *dubius* sp. n. Bolivia, Peru p. 316; *varipes* var. n. *aequifemur* Venezuela p. 320, HENNIG Stett. ent. Ztg. 95.

Scipopus key p. 321, *striatithorax* Brazil, *lateralis* Ecuador p. 326, *furcifer* Honduras p. 327, *bolivianus* Bolivia, *chalybeus* Bolivia, Peru, Chile p. 328, *compeditus* Mexico, *gorgonae* Gorgona Is. p. 329, spp. n., HENNIG t.c.

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CHLOROPIDAE (OSCINIDAE).

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Aspistyla pallipes sp. n. China p. 51, DUDA Abt. morph. tax. Ent. Berl. 1.—*A. flavitibia* sp. n. Sumatra p. 90, DUDA Tijdschr. Ent. 77.

Botanobia trifida p. 11, *picta* p. 76, spp. n. Sumatra, DUDA t.c.

Cadrema brevistyla Uruguay p. 411, *parviseta* Brazil p. 413, *angulicornis* p. 414, *linearis* p. 415 Argentina, spp. n. figs., MALLOCH Dipt. Patag. & S. Chile pt. 6.

Chaethippus subannulatus sp. n. S. America p. 405, MALLOCH t.c.

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Chloropsis marianapolitana sp. n. Quebec p. 320; key p. 323, OUELLET Nat. canad. 61.—*C. notata* biology p. 220, SACK Ent. Rdsch. 51.

Chlorops argentina, mendozae spp. n. Argentina p. 400 figs., MALLOCH Dipt. Patag. & S. Chile pt. 6.—*C. cinerella* p. 527, *suturalis* p. 533, spp. n. France, SÉGUY Faune de France 28.—*C. griseus* see *Lasiochlorops*; *incisa* see *Coniochlorops*.

Chromatopterum sumatranum sp. n. Sumatra p. 146, DUDA Tijdschr. Ent. 77.

Coniochlorops gen. n. for *Chlorops incisa* Meij. pp. 126, 128, DUDA Tijdschr. Ent. 77.

Conioscinella key p. 95, *atritibia* p. 106, *pallidipes* p. 107, *pictinervis* p. 108, *rigidiseta* p. 109, *umbripennis* p. 111, spp. n. Sumatra, DUDA t.c.—*C. flavotrigona* Panama p. 60, *rufipleura* Costa Rica p. 63, spp. n., DUDA Konowia 13.

Dactylothyrea key to Oriental spp. p. 85, DUDA Tijdschr. Ent. 77.

Discogastrella retracta var. n. *rufoscutellata* San Mateo p. 58, DUDA Konowia 13.

Elachiptera key p. 65, *albitarsis* p. 69, *confluens*, *lividipennis* p. 70, spp. n.; *notata* varr. n. *flavipes*, *obscurata* p. 73 Sumatra; *freyi* n. n. for *trivialis* Frey nec Beck. p. 67, DUDA Tijdschr. Ent. 77.

Epimadiza gallicola sp. n. Mozambique p. 48 fig., SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Eugaurax pleuralis p. 422, *bipunctata* p. 423, *bicolor* p. 424, spp. n. S. America, MALLOCH Dipt. Patag. & S. Chile pt. 6.

Eurina flava sp. n. Sumatra p. 117, DUDA Tijdschr. Ent. 77.

Eutropha oldenbergi sp. n. Formosa p. 58, DUDA Abt. morph. tax. Ent. Berl. 1.

Formosina key to Oriental spp. p. 149, *sulcithorax* sp. n. Sumatra p. 151, DUDA Tijdschr. Ent. 77.

Gaurax obscuripilus p. 52, *pleuromaculatus* p. 54, spp. n. Australia, DUDA Abt. morph. tax. Ent. Berl. 1.

Heringiinae subfam. n. p. 191, ENDERLEIN Zool. Anz. 105.

Heringium gen. n. p. 192, *ephydri-ninum* sp. n. Corsica p. 193 figs., ENDERLEIN t.c.

Homalura dumonti sp. n. France p. 513 figs., SÉGUY Faune de France 28.

Homops madagascariensis key to allied spp. p. 47, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Lasiochlorops gen. n. for *Chlorops griseus* Beck. p. 127, DUDA Tijdschr. Ent. 77.

Lasiopleura seticauda Mall. from *Parahippelates* p. 51, DUDA Abt. morph. tax. Ent. Berl. 1.

Lasiosina minor sp. n. France p. 518, SÉGUY Faune de France 28.

Liohippelates praeapicalis p. 62, *unimaculatus* p. 63, spp. n. Sumatra, DUDA Tijdschr. Ent. 77.

Lioscinella subgen. n. of *Oscinella* pp. 168, 169, DUDA Konowia 8 1929; a distinct genus. p. 71, scope p. 106 DUDA Folia zool. hydrobiol. 2 1930.

Madiza mendozana varr. n. *convexa*, *scutellaris*; *australis* p. 429, *flaviseta* p. 430, *nigriseta* p. 431 spp. n. S. America MALLOCH Dipt. Patag. & S. Chile pt. 6.

Merobates gen. n. p. 91, *longipes* sp. n. Sumatra p. 92, DUDA Tijdschr. Ent. 77.

Mimoscinis subgen. n. see *Oscinosoma*.

Oscinella key p. 112, *rutila* sp. n. Sumatra p. 115, DUDA Tijdschr. Ent. 77. —*O. nocens* var. *costaricana* var. n. *punctulata* p. 104; *vulgarimonens* sp. n. p. 110 Costa Rica, DUDA Konowia 13. —*O. siphonelloides* see *Pseudogoniopsita*.

Oscinis atra p. 141, *rubrostriata* p. 142 spp. n. Sumatra, DUDA Tijdschr. Ent. 77. —*O. frit* generations, oviposition pp. 231–247 figs., KÖRTING Z. PflKrankh. 44.

Oscinosoma (*Mimoscinis* subgen. n.) *maculiventris* p. 432, *flaviventris* p. 434, *iota* p. 435, *parvula* p. 436 spp. n. S. America, MALLOCH Dipt. Patag. & S. Chile pt. 6.

Parahippelates conopseus p. 45, *nigripilus* p. 48, *rufescens* p. 49 spp. n. Australia; *fuscipleuris* Beck. (= *brunneipennis* de Meij.) p. 47, DUDA Abt. morph. tax. Ent. Berl. 1. — *P. seticauda* see *Lasiopleura*.

Parectecephala sumatrana sp. n. Sumatra p. 144, DUDA Tijdschr. Ent. 77.

Polyodaspis compressiceps p. 82, *flavipila* p. 83, spp. n. Sumatra, DUDA t.c.

Pseudogaurax tibialis sp. n. Argentina p. 421, MALLOCH Dipt. Patag. & S. Chile pt. 6. — *P. densipilus* sp. n. China p. 55, DUDA Abt. morph. tax. Ent. Berl. 1. — *P. sumatranus* sp. n. Sumatra p. 76, DUDA Tijdschr. Ent. 77.

Pseudogoniopsita gen. n. for *Oscinella siphonelloides* Beck. p. 80, DUDA t.c.

Rhopalopternum key p. 66, *antiguense* Antigua p. 67, *flavicorne* p. 68, *majus* p. 101 Costa Rica, spp. n., DUDA Konowia 13.

Scoliophthalmus key to Oriental spp. p. 78, DUDA Tijdschr. Ent. 77.

Siphonellomyia gen. n., *hemiptera* sp. n. Argentina p. 13, SÉGUY Rev. Soc. ent. argent. 6.

Steleocerus key p. 120, *giganteus* sp. n. Sumatra p. 121, DUDA Tijdschr. Ent. 77.

Thaumatomyia egregia p. 147, *nigri-femur* p. 148, spp. n. Sumatra, DUDA t.c.

Tricimba annulipes sp. n. Sumatra p. 92, DUDA t.c. — *T. breviventris* p. 426, *niger* p. 427, spp. n. S. America, MALLOCH Dipt. Patag. & S. Chile pt. 6.

Tropidoscinis nitens var. n. *rufescens* Costa Rica p. 65, DUDA Konowia 13. — *T. exigua* p. 106, *sulcata* p. 110, spp. n. Sumatra, DUDA Tijdschr. Ent. 77.

DIOPSIDAE.

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Sphyracephala cothurnata see *Microdiopsis*.

EPHYDRIDAE.

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Actocetor anormalipennis sp. n. Mozambique p. 40 fig., SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Beckeriella magnicornis Panama, *schildi* p. 203, *pendicornis* Costa Rica, spp. n., key p. 205 figs., CRESSON Trans. Amer. ent. Soc. 60.

Canace cala sp. n. S. Africa p. 220, CRESSON t.c.—*C. nudata*, *chilensis* see *Canaceoides*.

Canaceoides gen. n. for *Canace nudata* Cress. (type), *C. chilensis* Cress. p. 221, *caffraria* sp. n. S. Africa p. 222, CRESSON Trans. Amer. ent. Soc. 60.

Chaetomosillus gen. n. for *Gymnopa dentifemur* Cress. p. 14 figs., HENDEL Ark. Zool. 25A no. 21.—*C. nigriceps* sp. n. New Guinea p. 3, MALLOCH Occ. Pap. Bishop Mus., Honolulu 10 no. 17.

Chaetoscatella unguiculata sp. n. Samoa p. 322, MALLOCH Ins. Samoa 6 fasc. 8.

Discocerina key p. 317, *atrifacies* p. 318, *communis* p. 319, *dubia* p. 320, spp. n. Samoa, MALLOCH t.c.

Ditrichophora laevior, *triseta* spp. n. India p. 200, CRESSON Trans. Amer. ent. Soc. 60.

Ephydra mexicana Mexico p. 214, *thermophila*, *bruesi* U.S.A. p. 215, spp. n., CRESSON t.c.—*E. tibetensis* sp. n. Indian Tibet p. 2, CRESSON Mem. Conn. Acad. Arts Sci. 10.—*E. hians* see *Hydropyrus*.

Eupsilopa gen. n. p. 315, *fascipennis* sp. n. Samoa p. 316 fig., MALLOCH Ins. Samoa 6 fasc. 8.

Glenanthe bimaculata sp. n. Mongolia p. 16 fig., HENDEL Ark. Zool. 25A no. 21.

Gymnopa paucula sp. n. N. Australia p. 199, CRESSON Trans. Amer. ent. Soc. 60.—*G. dentifemur* see *Chaetomosillus*.

Halmopota hutchinsoni sp. n. Indian Tibet p. 3, CRESSON Mem. Conn. Acad. Arts Sci. 10.

Hyadina sauteri sp. n. Formosa p. 206, CRESSON Trans. Amer. ent. Soc. 60.

Hydrellia proctori p. 235, *advenae* p. 236, spp. n. Maine, CRESSON Ent. News 45.

Hydropyrus gen. n. for *Ephydrhians* Say p. 216, CRESSON Trans. Amer. ent. Soc. 60.

Lytogaster angustata sp. n. Cuba p. 206, CRESSON t.c.

Napaea hulli, *undulata* p. 212, *socia* p. 213, spp. n. U.S.A., CRESSON t.c.

Neocanace n. n. for *Procanace* CURR. nec Hend. p. 357, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

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Pelinoides uncta sp. n. Uruguay p. 210, CRESSON t.c.

Physemops gen. n. for *Psilephydra nemorosa* Cress. p. 211, CRESSON t.c.

Plagiops see *Plagiopsis*.

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Procanace gen. n., *galapagensis* Galapagos Is. p. 160, *panamensis* (type) Panama p. 161, spp. n., CURRAN Proc. Calif. Acad. Sci. (4) 21.—See *Neocanace*.

Psilephydra nemorosa see *Physemops*.

Psilopa irregularis sp. n. Samoa p. 314, MALLOCH Ins. Samoa 6 fasc. 8.

Scatella laetifica p. 217, *notabilis* p. 218 Argentina, *bullacosta* Formosa p. 219, spp. n., CRESSON Trans. Amer. ent. Soc. 60.—*S. galapagensis* sp. n. Galapagos Is. p. 161, CURRAN Proc. Calif. Acad. Sci. (4) 21.

DROSOPHILIDAE.

Revision of Periscelidae 58a 13 pp. 11 figs.; Astiidae 58b 15 pp. 1 pl. 2 figs.; Aulacogastridae 58c 5 pp. 5 figs.; Curtonotidae 58d 5 pp. 4 figs.; Diastatidae 58e 18 pp. 2 pls. 10 figs.; Camillidae 58f 7 pp. 8 figs., DUDA in LINDNER Flieg. Pal. Reg.

Drosophilidae from Costa Rica in Hungarian National Museum, DUDA Ann. Mus. hung. 22 1925 pp. 149-229, 14 figs.

Revision of Palaearctic Drosophilids, DUDA in LINDNER Flieg. pal. Reg. 58g pp. 1-64, 2 pls. 20 figs.

Drosophilidae of Samoa, MALLOCH Ins. Samoa 6 fasc. 8 pp. 267-312, 12 figs.

Acanthophila mediotriata sp. n. Costa Rica p. 223, DUDA Ann. Mus. hung. 22 1925.—See *Spinulophia*.

Amiota alboguttata var. n. *subtusradiata* Europe, Asia p. 32; *flavopruinosa* sp. n. Germany p. 33 figs., DUDA in LINDNER Flieg. pal. Reg. 58g.

Asteia angustipennis sp. n. Siberia p. 11 fig., DUDA in LINDNER Flieg. Pal. Reg. 58b.

Calopterella argentina sp. n. Argentina p. 439, MALLOCH Dipt. Patag. & S. Chile pt. 6.

Camilla atripes Saar p. 5, *pruinosa* Palestine p. 6, spp. n. figs., DUDA in LINDNER Flieg. Pal. Reg. 58f.

Campichoeta zernyi sp. n. Palestine p. 16 fig., DUDA op. cit. 58a.

Chaetocnema gen. n. p. 242, DUDA Ann. Mus. hung. 23 1926.

Cyrtotum tigrinum sp. n. Mozambique p. 37, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.—*C. salinum* sp. n. Br. Guiana p. 440, CURRAN Bull. Amer. Mus. n.H. 66.

Dasydrosophila type *nasalis* Duda p. 291, MALLOCH Ins. Samoa 6 fasc. 8.

Diastata ussurica sp. n. Ussuri p. 8 fig., DUDA in LINDNER Flieg. Pal. Reg. 58e.

Diathoneura key p. 168, *tanyptera* p. 170, *guttipennis* p. 171, *quadrivittata*, *taeniopennis* p. 172, *tessellata* p. 174, *laticeps* p. 175, *cruciata* p. 177, *adumbrata*

p. 178, *infumata*, *euryopa* p. 179, *nubeculosa* p. 180, *albifacies*, *uniradiata* p. 181, *minuta* p. 182, *pleurolineata* p. 183, *nigrescens* (with var. n. *nigrifrons*) p. 184, spp. n. Costa Rica figs., DUDA Ann. Mus. hung. 22 1925.—*D. bomplandi* sp. n. Argentina p. 438, MALLOCH Dipt. Patag. & S. Chile pt. 6.

Drosophila appendiculata p. 441, *amplipennis* p. 442, *dudai* p. 444, spp. n. S. America figs., MALLOCH Dipt. Patag. & S. Chile pt. 6.—*D. nasalis* p. 194, *nigrohalterata* p. 195, *glabrifrons* p. 196, *fuscohalterata* p. 197, *flavohalterata* p. 198, *semialba* p. 208, *fundomaculata* p. 209, *prorepleta* p. 210, *pictiventris* p. 211, *limbiventris* p. 212, *fuscolineata*, *alternolineata* p. 213, *abregolineata* p. 214, *limbinervis* p. 215, *gigas* p. 216, *mediocobscurata* p. 217, *angustibucca* p. 218, *rostrata* p. 219, *fumipennis* p. 220, *subinfumata* p. 221, *kertészina* p. 222, spp. n. Costa Rica figs., DUDA Ann. Mus. hung. 22 1925.—*D.* key p. 298, *albifrontata* p. 301, *convexa* p. 303, *nigrifrons* p. 304, *upoluae* p. 305, *hypopygialis* p. 307, *excepta* p. 308, *bryani* p. 310, spp. n. Samoa figs., MALLOCH Ins. Samoa 6 fasc. 8.—*D. z-notata* p. 437, *fuscoamoeba*, *punalua* p. 438, *kaulua* spp. n.; *nigra* var. n. *iki* p. 439 Hawaii, BRYAN Proc. Hawaii. ent. Soc. 8.

Gitona gossypii Mozambique p. 35, *inornata* Zambezi p. 36, spp. n., SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.—*G. canariensis* Canary Is. p. 27, *vlavosi* Transcaspia p. 28, spp. n. figs., DUDA in LINDNER Flieg. pal. Reg. 58g.

Hirtodrosophila Duda good genus, type *hirticornis* de Meij. p. 291, key p. 292; *unicolor* p. 293, *innocua* p. 294 spp. n., MALLOCH Ins. Samoa 6 fasc. 8.

Hopkinsomyia gen. n., *convergens* sp. n. Samoa p. 289 fig., MALLOCH t.c.

Idiomyia grimshawi sp. n. Hawaii p. 435, BRYAN Proc. Hawaii. ent. Soc. 8.

Leucophenga stackelbergi sp. n. Siberia p. 40, DUDA in LINDNER Flieg. pal. Reg. 58g.

Lissocephala versicolor sp. n. Samoa p. 287, MALLOCH Ins. Samoa 6 fasc. 8.

Mycodrosophila nigrithorax p. 284, *buxtoni* p. 286, spp. n. Samoa figs., MALLOCH t.c.—*M. longicornis* sp. n. Mozambique p. 38, SÉGUY Mem. Mus. zool. Univ. Coimbra (1) no. 67 1933.

Neorhinoleucophenga vitripennis p. 164, *trachyopa* p. 165, *kertési* p. 166, *quinquelineata* p. 167, spp. n. Costa Rica, DUDA Ann. Mus. hung. 22 1925.

Neotanygastrella gen. n. p. 206, *tricoloripes* sp. n. Costa Rica p. 224, DUDA t.c.

Oxyphortica trisetata sp. n. Costa Rica p. 160, DUDA t.c.

Panamenia gen. n., *chapmani* sp. n. Panama p. 323, CURRAN Fam. Genn. N. Amer. Dipt. 1934.

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Paramycodrosophila costaricana p. 225, *poeciloptera* p. 226, Costa Rica spp. n. figs., DUDA t.c.

Paraphortica gen. n. type *lata* Beck. p. 36, DUDA in LINDNER Flieg. pal. Reg. 58g.

Periscelis nigra var. n. *schulzei* p. 9; *heegeri* sp. n. p. 11 Germany figs., DUDA in LINDNER Flieg. Pal. Reg. 58a.

Protostegana varicolor (with var. n. *nigra*) sp. n. Costa Rica p. 161, DUDA Ann. Mus. hung. 22 1925.—*P. sibirica* sp. n. Siberia p. 20, DUDA in LINDNER Flieg. pal. Reg. 58g.

Pseudocoxenus gen. n., *lineatifrons* sp. n. Costa Rica p. 157, DUDA Ann. Mus. hung. 22 1925.

Samoaia gen. n. key p. 270, *ocellaris* (type) p. 271, *comma* p. 273, *hirta* p. 275, *nuda* p. 277, spp. n. Samoa figs., MALLOCH Ins. Samoa 6 fasc. 8.

Scaptomyza stramineipes p. 295, *bicolor* p. 297, spp. n. Samoa, MALLOCH t.c.—*S. denticauda* p. 449, *multispinosa* p. 450, *apicipuncta* p. 451, *dissimilis* p. 452, spp. n. S. America figs., MALLOCH Dipt. Patag. & S. Chile pt. 6.—*S. spinipalpis* sp. n. Argentina p. 11 fig., SÉGUY Rev. Soc. ent. argent. 6.

Schizochaeta gen. n. p. 52, *shannoni* sp. n. Peru p. 53 figs., MALLOCH Stylops 3.

Sobarocephala guianica p. 442, *imitans* p. 443, spp. n. Br. Guiana, CURRAN Bull. Amer. Mus. n.H. 66.

Spinulophila Duda good genus (= *Acanthophila* Duda nec Heinr.) p. 310, *nasuta* Lamb. (= *alborittata* Duda, *bilimbata* Bez.) p. 311; *metallescens* sp. n. Philippines p. 312, MALLOCH Ins. Samoa 6 fasc. 8.

Stegana dorsolineata p. 159, *nigro-marginata* p. 160, spp. n. Costa Rica, DUDA Ann. Mus. hung. 22 1925.—*S. africana* sp. n. S. Rhodesia p. 138, MALLOCH Stylops 3.—*S. antica*, *norma* spp. n. Br. Guiana p. 439, CURRAN Bull. Amer. Mus. n.H. 66.

Tanyglossa subgen. n. see *Zygothrica*.

Upolomyia gen. n., key, *pictifrons* (type) p. 280, *bimaculata* p. 283, spp. n. Samoa figs., MALLOCH Ins. Samoa 6 fasc. 8.

Zygothrica samoënsis sp. n. Samoa p. 278 fig., MALLOCH t.c.—Z. key p. 186, *Tanyglossa* subgen. n., *tenuirostris* p. 189, *microstoma* p. 190 spp. n.; *vittatifrons* var. n. *avittata* p. 191 Costa Rica figs., DUDA Ann. Mus. hung. 22 1925.

GEOMYZIDAE

(TRIXOSCELIDAE, ANTHOMYZIDAE).

Anagnota gen. n. p. 309, BECKER Z. syst. Hym. Dipt. 2 1902.

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Revision of Tethinidae, HENDEL Tijdschr. Ent. 77 pp. 37–54, 7 figs.

Dasyrhinoessa gen. n. for *Rhinoessa fulva* Hend. p. 51, HENDEL Tijdschr. Ent. 77.

Mayomyia gen. n. p. 487, *diversipennis* (with var. n. *nigripalpis* p. 489) sp. n. Patagonia p. 487 fig., MALLOCH Dipt. Patag. & S. Chile pt. 6.

Pelomyia key p. 51, *cruciata* sp. n. N. America p. 52, HENDEL Tijdschr. Ent. 77.—*P. peruviana* p. 458, *trivittata* p. 459, *viedmae*, *intermedia* p. 460, spp. n. S. America figs., MALLOCH Dipt. Patag. & S. Chile pt. 6.—*P. hungarica* see *Pelomyiella*.

Pelomyiella gen. n. for *Pelomyia hungarica* Cz. p. 52, HENDEL Tijdschr. Ent. 77.

Rhinoessa key, *czernyi* Transcaspia, Asia Minor, Spain, Germany p. 46, *orientalis* Formosa, *flavigenis* Spain p. 47, *heringi* Canary Is. p. 49, spp. n., HENDEL t.c.—*R. fulva* see *Dasyrhinoessa*.

Tethina key to spp. p. 39, HENDEL Tijdschr. Ent. 77.—*T. setulosa* p. 454, *chilensis* p. 455, spp. n. Chile, MALLOCH Dipt. Patag. & S. Chile pt. 6.

MILICHIIDAE

(OCHTHIPHILIDAE, CHAMAEMYIIDAE).

Milichiidae of Samoa, MALLOCH Ins. Samoa 6 fasc. 8 pp. 325–328, 2 figs.

Chamaemyia elegans see *Plunomia*.

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Neophyllomyza fuscogrisea sp. n. Zambezi p. 50, SÉGUY t.c.

Paramyia fumipennis sp. n. Peru p. 465, MALLOCH Dipt. Patag. & S. Chile pt. 6.

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scutellaris, *vicina* p. 313, *orthacantha*
p. 317 Brazil, *exsul* country unknown
p. 314, *columbiae* Colombia p. 315,
assimilis Surinam p. 316, *pilipes*
Porto Rico p. 318, *prasina* Venezuela,
nesiotes Curacao p. 322, *planiceps*
Guadeloupe p. 323 spp. n.; *flavicollis*
var. n. *obtusa* country unknown p. 320
figs., HORVÁTH Ann. Mus. hung. 22
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Mayr (= *fryi* Dist.) (type) p. 324,
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adult ♂ pp. 693-696 figs., HOFFMANN
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Is. p. 187: *lutescens* Dist. from
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fimbriatus Dist. p. 189, CHINA t.c.

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fig., BLÖTE Zool. Meded. 17.

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Sumatra p. 285, BLÖTE t.c.

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p. 188; *orientalis* Dist. from *Pendulinus*
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main p. 283, BLÖTE Zool. Meded. 17.

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Pintalia characters p. 421, *fuscipennis* p. 422, *propria* p. 423, *longispinis* p. 425, *quadrispinosa* p. 426, *infusata*, *fuscomaculata* p. 430, *angustinotata* p. 434, *albomarginata* p. 435, *latinotata* p. 437, *ornata* p. 439 Brazil, *huigrensis*, *furcata* p. 424, *distincta* p. 425, *fuscomarginata* p. 427, *obscurata*, *lentiginosa* p. 428 (with var. n. *tunguraguensis* p. 430), *brunnivenosa*, *bicaudata* p. 432, *obtorta* p. 433, *ecuadorensis* p. 437, *maculipennis* p. 438, *pulchella* p. 439, *altamazonica* p. 440, *discrepans* p. 441 Ecuador, *blairmontensis* p. 431, *albo-lineata* p. 435, *tumatumariensis* p. 436, Br. Guiana, spp. n. figs., MUIR Trans. R. ent. Soc. Lond. 82.

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ACHILIXIIDAE.

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ACHILIDAE.

Breddiniola gen. n. p. 581, *tangensis* sp. n. E. Africa p. 583 figs., MUIR Ann. Mag. n.H. (10) 14.

DERBIDAE.

Cedusa angustifrons Jac., *venosa* Jac. from *Gonyphlepsia* p. 565, MUIR Ann. Mag. n.H. (10) 14.

Diostrombus hopkinsi p. 568, *pseudohancocki* p. 569, *miniaceus* p. 571 Uganda, *whitfieldi* Sudan p. 570, spp. n.; *rufus* ♂ p. 571 figs., MUIR t.c.

Eocenchrea Muir (= *Gonyphlepsia* Jac. from Cixiidae), *albipennis* sp. n. New Caledonia p. 565, MUIR t.c.

Gonyphlepsia angustifrons, *venosa* see *Cedusa*.

Pamendanga grahami genitalia fig. p. 572; *neavei*, *hopkinsi* spp. n. Uganda p. 574 figs., MUIR t.c.

Puraphenice carpentieri sp. n. Belgian Congo p. 566 fig., MUIR t.c.

Phaciocephalus rubrofasciata genitalia fig. p. 567, MUIR t.c.

Phenice grandis sp. n. Uganda p. 565, MUIR t.c.

TROPIDUCHIDAE.

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Stacotoides formosana, *zonata* p. 469, *basifusca* p. 470, spp. n. Japan Empire, KATO Konchûkai 1 1933.

ISSIDAE.

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Gergithus nigrolimbatus p. 134, *affinis*, *longulus* p. 135, spp. n. Formosa, SCHUMACHER Suppl. Ent. 4 1915.—*G. lineatus* sp. n. Japan p. 461, KATO Konchûkai 1 1933.

Hemisphaerius delectabilis p. 135 (with var. n. *alikangensis*), *bistriatus* p. 136, spp. n. Formosa, SCHUMACHER Suppl. Ent. 4 1915.

Mushya gen. n., *quadrivittata* sp. n.
Japan p. 464, KATO Konchūkai 1
1933.

Naso see *Fitchiella*.

Padanda denti sp. n. Kenya p. 561
fig., MUIR Ann. Mag. n.H. (10) 14.

Pterilia formosana sp. n. Formosa
p. 462, KATO Konchūkai 1 1933.

Sarima versicolor sp. n. Japan
p. 462, KATO t.c.—*S. formosana* sp. n.
Formosa p. 137, SCHUMACHER Suppl.
Ent. 4 1915.

Spathocranus gen. n., *mikado* sp. n.
Kenya p. 563 figs., MUIR Ann. Mag.
n.H. (10) 14.

Tonga botelensis sp. n. Japan p. 463,
KATO Konchūkai 1 1933.

RICANIIDAE.

Pochazia facialis sp. n. Japan p. 467,
KATO Konchūkai 1 1933.

Ricania quadrimaculata sp. n. Japan
p. 467, KATO t.c.

FLATIDAE.

Atracis formosana p. 465, *koshunensis*
p. 466, spp. n. Japan Empire, KATO
Konchūkai 1 1933.

CERCOPIIDAE.

Cercopoidea of China, METCALF &
HORTON Lingnan Sci. J. 13 pp. 367–
429, 7 pls, 2 figs.

Abidama rufescens sp. n. China
p. 376 figs., METCALF & HORTON
Lingnan Sci. J. 13.

Aphrophora of U.S.A. pp. 175–179
figs., BALL Ent. News 45.—*A. gigas*
p. 227, *horizontalis* p. 228, *karenkoensis*
p. 229, *flavicosta* p. 230, *taiwana*
p. 231, spp. n. Japan Empire, KATO
Konchūkai 1 1933.—*A.* key to Mongolian
and Japanese spp. p. 410, *impressa*
sp. n. China p. 415 figs., METCALF &
HORTON Lingnan Sci. J. 13.—*A.*
binomoriensis, *musashiana* p. 74, *takaii*,
yatsugadakensis p. 75, *yohenai* p. 76,
spp. n. Japan, MATSUMURA Ins. mats.
9.—*A. maxima* see *Aphropsis*.

Aphropsis gen. n., *gigantea* sp. n.
(type) China; *maxima* Jac. from
Aphrophora p. 409 figs., METCALF &
HORTON Lingnan Sci. J. 13.

Aufidus key to Oriental spp. p. 380,
ochraceus sp. n. China p. 381 figs.,
METCALF & HORTON t.c.

Awafukia gen. n., *hirayamai* sp. n.
Japan p. 76, MATSUMURA Ins. mats. 9.

Cercopis arcuata ab. n. *pallida* Italy
p. 90, MANCINI Boll. Soc. ent. ital.
66.—*C.* key to spp. from China and
adjacent territories, *hoffmanni* sp. n.
China p. 418 figs., METCALF & HORTON
Lingnan Sci. J. 13.

Clastoptera obtusa varr. n. *pallida*,
borealis p. 145, *juniperina*; *lineaticollis*
varr. n. *lugubris* p. 146, *brunnea* p. 147
U.S.A., BALL Proc. Iowa Acad. Sci. 26
1919.

Clovioa longicephala sp. n. Japan
p. 220, KATO Konchūkai 1 1933.—
C. key to spp. from China and adjacent
territories p. 421, *quadrangularis* sp. n.
Hainan p. 422 figs., METCALF &
HORTON Lingnan Sci. J. 13.

Cosmoscarta key to spp. from China
and adjacent areas p. 382, *rubro-*
maculata sp. n. China p. 389 figs.,
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Haiti p. 147, *ovata* Jamaica p. 148,
spp. n. figs., BALL Proc. Iowa Acad.
Sci. 26 1919.

Eoscarta key to Chinese and Japanese
spp., *seminiger* var. n. *crocea* China
p. 378, METCALF & HORTON Lingnan
Sci. J. 13.

Gallicana flava sp. n. China p. 420
figs., METCALF & HORTON t.c.

Jembra gen. n., *pallida* sp. n. China
p. 408 figs., METCALF & HORTON t.c.

Jembrana ovalis sp. n. China p. 408
figs., METCALF & HORTON t.c.—
J. flavomaculata p. 223, *albinotata*
p. 224, *punctipennis* p. 225, *formosana*
p. 226, spp. n. Japan Empire, KATO
Konchūkai 1 1933.

Lallemandana n. n. for *Lallemandia*
China nec Funkh. p. 466, CHINA Ann.
Mag. n.H. (10) 14.

Lallemandia see *Lallemandana*.

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bolocrata sp. n. Haiti p. 149 figs., BALL
Proc. Iowa Acad. Sci. 25 1919.

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Mexico p. 149, BALL t.c.—*L. limbata*
sp. n. China p. 232, KATO Konchūkai
1 1933.

Lepyropsis gen. n. p. 416, *bipunctata*
sp. n. China p. 417 figs., METCALF &
HORTON Lingnan Sci. J. 13.

Mesoptylus fascialis p. 233, *auro-pilosus* p. 234, spp. n. Japan, KATO Konchūkai 1 1933.

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Peuceptylus matsumuri n. n. for *medius* Mats. nec Mel. p. 416, METCALF & HORTON t.c.—*P. inokashiranus*, *oiwakensis* p. 77, *takaosanus* p. 78, spp. n. Japan, MATSUMURA Ins. mats. 9.

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Agalliopsis key to Mexican and Centr. American spp. p. 445, *longipennis* p. 446, *distincta* p. 447, *gracilis* p. 448, *agrestis* p. 449, *similis*, *acuminata* p. 451, *majesta* p. 452 Mexico, *inscripta* Guatemala, Honduras p. 450, spp. n. figs., OMAN t.c.—*A. fasciatus* sp. n. Samoa p. 164 fig., OSBORN Ins. Samoa 2 fasc. 4.

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Centrometopia subgen. n. see *Oncomeptopia*.

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Cornutipo gen. n., *scalpellum* sp. n.
Australia p. 164 fig., EVANS t.c.

Cornutipoides gen. n., *tricornis* sp. n.
Australia p. 164 fig., EVANS t.c.

Cuerna gen. n. for *Tettigonia lateralis*
F. (type) and others p. 363; *rubro-*
marginata var. n. *similis* Argentina;
centrolinea sp. n. Peru p. 365, MELICHAIR
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Dichometopia subgen. n. see *Oncome-topia*.

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positor pp. 293-310 figs., BALDUF
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koshunensis spp. n. Formosa p. 127,
SCHUMACHER Suppl. Ent. 4 1915.—*E. mucronata* Hautes-Alps p. 151,
virgator p. 152 (also Belgium), *subulata*
p. 155, *dumosa* p. 158 Hautes Garonne,
alsiosa Bormes p. 155, *maritima* Aude
p. 156, *mendax* Italy p. 160, *tullgreni*
(= *flavescens* Tullg. nec F.) spp. n.;

(N-4573 j)

flavescens F. (= *vitium* Paoli); *decipiens*
Paoli (= *solani* Curt., *solanituberosi*
Koll.) p. 154; *tessellata* subsp. n.
hungarica Hungary p. 160; *haupti*
n. n. for *punctum* Haupt nec Leth.
p. 161 figs., RIBAUT Bull. Mus. H.n.
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subgen. n.), *exsultans* Singapore,
virgata Mindanao spp. n. p. 113 figs.,
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figs., ZACHVATKINE Mem. Soc. ent.
ital. 12.—*E. devastans* sound pro-
duction pp. 54-57 figs., GEORGE
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lata, *recta*, *ditata* p. 606, *vergena*,
distracta p. 607, *pyramidata* p. 608,
spp. n. U.S.A. figs., DELONG & CALD-
WELL Ann. ent. Soc. Amer. 27.

Endeia subgen. n. see *Empoasca*.

Erythroneura nigroscuta p. 258,
attenuata, *vaga* p. 260, *breakeyi* spp. n.;
tricincta var. n. *noncincta* p. 261
Ohio; *rufomaculata* McA. a var. of
nigroscuta not comes p. 259; *bistrata*
McA. a sp.; *stricta* McA. a var. of
bistrata not *vitis* p. 262 figs., JOHNSON
Ohio J. Sci. 34.—*E. samoana* sp. n.
Samoa p. 191, OSBORN Ins. Samoa 2
fasc. 4.—*E. davisi* sp. n. U.S.A.;
amabilis McA. a sp. p. 96, BEAMER
J. Kans. ent. Soc. 7.—*E. aprica* ♂
p. 285; *ritana* p. 286, *huachucana*,
ceonothana p. 287, spp. n. Arizona,
BEAMER J. N.Y. ent. Soc. 42.—*E. inclita*
sp. n. California p. 44, BEAMER
Pan-Pacific Ent. 10.—*E. apache* Bak.
(= *balli* Beam.) p. 17, ♂; *accurata*
n. n. for *pulchra* Beam. nec Naude p. 18,
BEAMER Canad. Ent. 66.—*E. hubbardi*
see *Typhlocyba*.

Eurymela porriginosa see *Anipo*;
pignosa see *Anacornutipo*.

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Kirk. p. 29, KIRKALDY Bull. Hawaii.
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meloides Z.R. lxx 1933 p. 401).

Eurymeloides rubrivenosus see *Katipo*;
insignis see *Ipoella*.

Euscelis maculipen[n]is sp. n. Idaho p.
221 fig., DELONG & DAVIDSON J. N.Y.
ent. Soc. 42.

Eutettix ornatella sp. n. Samoa p. 178
fig., OSBORN Ins. Samoa 2 fasc. 4.

Flexamia as a subgen. n. of *Deltocephalus*, q.v.—*F. decora* p. 2, *doeringae*, *modica* p. 3. U.S.A., *serrata* Br. Columbia p. 4, spp. n. figs., BEAMER & TUTHILL J. Kans. ent. Soc. 7.

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Hecaloidella gen. n. p. 173, *nitida* sp. n. Samoa p. 174 fig., OSBORN Ins. Samoa 2 fasc. 4.

Heterometopia subgen. n. see *Oncome-topia*.

Homa rubrodorsata sp. n. Japan p. 452, KATO Konchūkai 1 1933.—*H. upoluana* sp. n. Samoa p. 190 fig., OSBORN Ins. Samoa 2 fasc. 4.

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Ipo hilli Australia, *sordida* Thursday I., Queensland spp. n. p. 154, EVANS Trans. roy. Soc. S. Aust. 58.—*I. procurrens* see *Ipocerus*.

Ipocerus gen. n. for *Ipo procurrens* Jac. p. 165 fig., EVANS Trans. roy. Soc. S. Aust. 58.

Ipoella gen. n., *fidelis* (type) p. 157, *canberrensis* spp. n. Australia; *insignis* Dist. from *Eurymeloides* p. 159 figs., EVANS t.c.

Ipoidea gen. n. p. 155, *leai* New Caledonia, *hackeri* (type), *translucens*, *ooldeae* p. 156, *casurinae* p. 157, spp. n. Australia figs., EVANS t.c.

Jassoidula gen. n. p. 182, *straminea* (type), *niuensensis* p. 183, *ochracea* p. 184, *infusata*, *metallica* p. 185, *limbata* p. 186, *cuprescens*, *pallida* p. 187 spp. n. Samoa fig., OSBORN Ins. Samoa 2 fasc. 4.

Jassus egregius sp. n. Formosa p. 125, SCHUMACHER Suppl. Ent. 4 1915.—*J. fijianus* sp. n. Fiji p. 182, OSBORN Ins. Samoa 2 fasc. 4.

Jilijapa gen. n., *armata* sp. n. Cochinchina p. 356, MELICHAR Ann. Mus. hung. 22 1925.

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Stirellus pacificus p. 179, *samoanus*, *affinis* p. 180, *tauensis* p. 181, *spp. n.* Samoa fig., OSBORN *Ins. Samoa* 2 fasc. 4.

Teleogonia *gen. n.* for *Tettigonia fusca* Wlk. (type); *jacobii* *sp. n.* Colombia p. 362, MELICHAR *Ann. Mus. hung.* 22 1925.

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Tettigonia praestantior, *undecimmaculata* see *Platygonia*; *pubescens* see *Homalogniella*; *fitchii* see *Omagua*; *fusca* see *Teleogonia*; *semirasa* see *Campecha*; *lateralis* see *Cuerna*.

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Dactynotus picridis F., *nigrocampunulae* Theo. from *Macrosiphum* p. 32, HILLE RIS LAMBERS Stylops 3.—*D. wakibae* sp. n. Colorado p. 6, HOTTES Proc. biol. Soc. Wash. 47.—*D. takala*, *tutigula*, *wahinkae* see *Kakimia*.

Doralis L. (= *Pergandeida* Schout.) *urticaria* Kalt. (= *stanilandi* Laing) p. 25, HILLE RIS LAMBERS Stylops 3.

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Hyperomyzus rhinanthi Schout. (= *Rhopalosiphoninus tuberculatus* Theo.) p. 33, HILLE RIS LAMBERS Stylops 3.

Kakimia cynosbati Oestl. from *Nectarophora* p. 162; *alpina* Gil. & Pal. p. 160, *essigi* Gil. & Pal. p. 163, *polemonii* Gil. & Pal., *potentillae* Will. p. 165 from *Myzus*; *purpurascens* Oestl. from *Macrosiphum*; *takala* Hottes p. 166, *tutigula* Hot. p. 167, *wahinkae* Hot. p. 168 from *Dactynotus* figs., GILLETTE & PALMER Ann. ent. Soc. Amer. 27.

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Myzocallis betulæ Buckt. (= *Subcallipterus minimus* v.d.G.) p. 33, HILLE RIS LAMBERS Stylops 3.—*M. boudyi* sp. n. Morocco p. 12 fig., MIMEUR Mém. Soc. Sci. nat. Maroc 40.

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Rhopalosiphum nymphaeae L. (= *Hyadaphis sparganii* Theo.) p. 26; *crataegellum* Theo. (= *Aphis crataegella* Theo.) p. 28, HILLE RIS LAMBERS Stylops 3.—*R. sanguinarium* sp. n. Mexico p. 214 figs., BAKER An. Inst. Biol. Mexico 5.—*R. alboapicalis* see *Cryptomyzus ribis*; *rumicis* see *Cavariella pastinacae*.

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p. 44, spp. n. Belgian Congo figs.,
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re-description p. 27; *tachyerges* sp. n.
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p. 69, spp. n. Belgian Congo fig.,
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Diatillus gen. n. (Diatillidae), *debilis*
sp. n. Upper Lias, Germany p. 210,
HANDLIERSCH t.c.

Eonabidae fam. n. p. 207, HAND-
LIERSCH op. cit. 1920.

Eonabis gen. n. (Eonabidae), *primiti-
va* sp. n. Upper Lias, Germany p. 207,
HANDLIERSCH t.c.

Fulgoridum spilographum, reductum
spp. n. Upper Lias, Germany p. 212 figs.,
HANDLIERSCH op. cit. 1921.

Hadrocoridae fam. n. p. 207, HAND-
LIERSCH op. cit. 1920.

Hadrocoris scutellaris sp. n. Upper
Lias, Germany p. 208 fig., HANDLIERSCH
t.c.

Liadopsylla gen. n. (Psyllidae),
geinitzi sp. n. p. 213 fig., HANDLIERSCH
op. cit. 1921.

Probascanionidae fam. n. p. 209,
HANDLIERSCH t.c.

Progonocoris gen. n. (Archegocimici-
dae), *pictus* sp. n. Upper Lias, Germany
p. 207 fig., HANDLIERSCH op. cit. 1920.

Psychrocoridae fam. n. p. 208,
HANDLIERSCH t.c.

Psychrocoris gen. n. *cuneifera* sp. n.
Upper Lias, Germany p. 208 fig.,
HANDLIERSCH t.c.

Sisyrocoridae fam. n. p. 210, HAND-
LIERSCH op. cit. 1921.

Sisyrocoris ? gen. n. *rudis* sp. n. Upper
Lias, Germany p. 209 fig., HAND-
LIERSCH t.c.

Thysanoptera.

Rhipidothripoides gen. n. (Aeolothri-
pinae) type *abdominalis* Bagn. p. 36,
BAGNALL Ent. mon. Mag. 59 1923.

Ephemeroptera.

Synarmogoidea ord. n. p. 145, HAND-
LIERSCH Handb. Ent. 3 1920.

Protoreismidae n. n. for Protoreis-
mephemeridae Sellards p. 140, HAND-
LIERSCH t.c.

Odonata and Protodonata.

Campterothlebiidae fam. n. p. 178, HANDLIRSCH Handb. Ent. 3 1920.

Aeschnogomphus type *charpentieri* Hag. p. 249, COWLEY Entomologist 67.

Cymatophlebia see *Libellulium*.

Daemhippus gen. n. for *Platynemis cincuneguii* Gil Collado p. 91 fig., NAVÁS Rev. Acad. Cienc. Zaragoza 10 1927.

Diastatommites gen. n. no description p. 178, HANDLIRSCH in SCHRÖDER Handb. Ent. 3 1920; description, type *liassina* Strickl. p. 21 fig., TILLYARD London Br. Mus. (nat. Hist.) Fossil Ins. no. 1 1925.

Eosagrionidae fam. n. p. 184, HANDLIRSCH Handb. Ent. 3 1920.

Eosagrion gen. n. (Eosagrionidae) *risi* sp. n. (non descr.) p. 184, HANDLIRSCH t.c.

Epacantha gen. n. (Aeschnidae) (type *magnifica* Mart.) p. 190, MARTYNOV Trav. Mus. géol. Leningrad 5 1929.

Gomphites gen. n. nom. nud. p. 183, HANDLIRSCH in SCHRÖDER Handb. Ent. 3 1920; description, type *brodiei* Buckm. p. 35, TILLYARD London, Br. Mus. (nat. Hist.) Fossil Ins. no. 1 1925. See *Liassogomphus*.

Liassogomphus n. n. for *Gomphites* Tilly. nec Cart. type *brodiei* Buckm. p. 275, COWLEY Entomologist 67.

Libellulium Westw. (= *Cymatophlebia* Deichm.) p. 276, COWLEY Entomologist 67.

Mesogomphus Handl. see *Necrogomphus*.

Mesuropetala type *Gomphus koehleri* Hag. p. 252, COWLEY Entomologist 67.

Nannogomphus type *bavaricus* Handl. p. 252, COWLEY Entomologist 67.

Necracantha Mart. type *composita* Mart. p. 243, COWLEY Ent. mon. Mag. 70.

Necrogomphus Camp. (= *Mesogomphus* Handl.) nec Först. type *petrificatus* Hagen p. 201, COWLEY Entomologist 67.

Palaeaeschna ? gen. n. p. 122, MEUNIER Mem. Acad. Ci. Barcelona (3) 11 1914.

Platynemis cincuneguii see *Daemhippus*.

Proaeschna gen. n. nom. nud. p. 3, FRITSCH S.B. böhm. Ges. Wiss. Mat. Nat. Cl. 1905 no. 21.

Protomyrmeleon gen. n., *brunonis* sp. n. Lias, Jura p. 204 figs., GEINITZ Arch. Ver. Meckl. 41 1888.

Pseudoeuphaea type *Euphaea areolata* Hag. p. 252, COWLEY Entomologist 67.

Samarura gen. n. p. 7, BRAUER, REDTENBACHER & GANGLBAUER Mém. Acad. Imp. Sci. St. Pétersbourg (7) 36 no. 15 1889; type *gigantea* Br., Redt. & Gangl. p. 253, COWLEY Entomologist 67.

Selenothemis gen. n. (?) p. 178, HANDLIRSCH in SCHRÖDER Handb. Ent. 3 1920.

Tillyardia see *Truemanina*.

Truemanina n. n. for *Tillyardia* Bolton nec Carter (Col.) p. 183, BOLTON Nature 134.

Urogomphus type *Aeshna gigantea* Germ. p. 253, COWLEY Entomologist 67.

Orthoptera and Protorthoptera.

Carboniferous Protorthoptera from Pennsylvania, CARPENTER Ann. Carnegie Mus. 22 pp. 323-342, 1 pl. 13 figs.

Orthoptera of the diluvial rhinoceros layer of Starunia, Polish Carpathians, ZEUNER Starunia no. 3 17 pp. 1 pl.

Abia kochi sp. n. Mecklenburg p. 200 GEINITZ Arch. Ver. Naturg. Mecklenb. 41 1888.

Acmaeoblatta (Mesoblattinidae) *carbonaria* sp. n. Pennsylvania p. 340 fig., CARPENTER Ann. Carnegie Mus. 22.

Actinoblatta gen. n. (Archimylacridae), *bucketi* sp. n. N. France coal fields p. 331 figs., PRUVOST Ann. Soc. géol. Nord 41 1912.

Actinomylacris (Mylacridae) *similis* sp. n. Pennsylvania p. 337 fig., CARPENTER Ann. Carnegie Mus. 22.

Aphthoroblattina (Archimylacridae) *handlirschi* sp. n. Pennsylvania p. 331 fig., CARPENTER t.c.

Archaeotiphe regularis sp. n. Br. coal measures p. 287 figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Archimylacris simoni sp. n. N. France coal fields p. 338 figs., PRUVOST Ann. Soc. géol. Nord 41 1912.

Asapheneura gen. n., *roussini* sp. n. N. France coal fields p. 284, PRUVOST op. cit. 43 1920.

Boltonia gen. n. type *Gerablattina sulcata* Bolton p. 439, HANDLIRSCH S.B. Akad. Wiss. Wien 129 Abt. 1 1920. [See *Sulcoboltonia* Strand Z.R. lvi 1929 p. 436.]

Boltonia gen. n., *robusta* sp. n. N. France coal fields p. 284, PRUVOST Ann. Soc. géol. Nord 43 1920. [Cf. *Boltopruvostia* Z.R. lvi 1929 p. 436.]

Caloneurella gen. n. (Protorthoptera, Caloneuridae) p. 324, *carbonaria* sp. n. Pennsylvania p. 326 fig., CARPENTER Ann. Carnegie Mus. 22.

Chorthippus hammarstroemi ♀, *angulatus* ♂ diluvial Starunia p. 7 figs., ZEUNER Starunia no. 3.

Climaconeura gen. n., *reumauvi* sp. n. N. France coal fields p. 327 fig., PRUVOST Ann. Soc. géol. Nord 41 1912.

Dipluroblattina scudderii sp. n. Mecklenburg p. 200, GEINITZ Arch. Ver. Naturg. Mecklenb. 41 1888.

Elcana reticulata, *marginalis* spp. n. Upper Lias, Germany p. 187 figs., HANDLIRSCH Handb. Ent. 3 1920.

Eodecticus gen. n. (Tettigoniidae) type *maculatus* Pongr. p. 128 figs., PONGRÁČZ Ann. hist.-nat. Mus. hung. 25 1928.

Fabreciella gen. n. (Protorthoptera, Palaeocixiidae) p. 327, *pennsylvanica* (type), *alleghehiensis*, spp. n. Pennsylvania p. 328 figs., CARPENTER Ann. Carnegie Mus. 22.

Gerarus symmetricus sp. n. Br. coal measures p. 282 figs., BOLTON Quart. J. Geol. Soc. Lond. 90.

Glaphyrophlebia delicatula sp. n. Br. coal measures p. 284 figs., BOLTON t.c.

Hemimylacrella (Archimylacridae) *mammothi* sp. n. Pennsylvania p. 322 fig., CARPENTER Ann. Carnegie Mus. 22.

Iasvia gen. n. (Oedischiiidae) p. 150, *reticulata* sp. n. Toherdyn, Permian p. 151 figs., ZALESSKY Ann. Soc. ent. Fr. 103.

Locustopsis magnifica sp. n. Upper Lias, Germany p. 186 fig., HANDLIRSCH Handb. Ent. 3 1920.

Manoblatta gen. n., *bertrandi* sp. n. N. France coal fields p. 284, PRUVOST Ann. Soc. géol. Nord 43 1920.

Mesitoblatta nodulata sp. n. Br. coal measures p. 289 figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Necymylacris gen. n. (Mylacridae), *villeti* p. 351, *lafittei* p. 353, *godoni* p. 354, spp. n. N. France coal fields figs., PRUVOST Ann. Soc. géol. Nord 41 1912.—See *Phylomylacris*.

Neosimplicius gen. n. (Mylacridae), *medialis* sp. n. Pennsylvania p. 339 fig., CARPENTER Ann. Carnegie Mus. 22.

Phyloblatta (Archimylacridae) *humeri* p. 342, *cuvelettei* p. 343, *morini* p. 345, spp. n. N. France coal fields figs., PRUVOST Ann. Soc. géol. Nord 41 1912.—*P. pennsylvanica* sp. n. Pennsylvania p. 324 fig., CARPENTER Ann. Carnegie Mus. 22.

Phylomylacris n. n. for *Necymylacris* Pruv. nec Studd. p. 290 (note), PRUVOST Ann. Soc. géol. Nord 43 1920.

Plagioblatta (Archimylacridae) *cockerelli* sp. n. Pennsylvania p. 333 fig., CARPENTER Ann. Carnegie Mus. 22.

Podisma alpina ♂ p. 9, *frigida* ♂♀ diluvial Starunia p. 10 figs., ZEUNER Starunia no. 3.

Podismopsis altaica p. 2, *relicta* p. 4 ♂♂ diluvial Starunia figs., ZEUNER t.c.

Polyetes problematica sp. n. Br. coal measures p. 285 figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Protogryllus acutipennis, *germanicus* spp. n. Upper Lias, Germany p. 189 figs., HANDLIRSCH Handb. Ent. 3 1920.

Pterinoblattina megapolitana sp. n. Mecklenburg p. 198, GEINITZ Arch. Ver. Naturg. Mecklenb. 41 1888.

Schizoblatta (Archimylacridae) *pennsylvanica* sp. n. Pennsylvania p. 324 fig., CARPENTER Ann. Carnegie Mus. 22.

Soomylacris truncata p. 291, *celtica* p. 293, spp. n. Br. coal measures figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Stenobothrus posthumoides sp. n. diluvial Starunia p. 5 figs., ZEUNER Starunia no. 3.

Stenomylacris (Mylacridae) *montagnei* sp. n. N. France coal fields p. 358, PRUVOST Ann. Soc. géol. Nord 41 1912.—*S. emersoni* sp. n. Pennsylvania p. 338 fig., CARPENTER Ann. Carnegie Mus. 22.

Syscioblatta (Spiloblattinidae) *allegheniensis* p. 335, *pennsylvanica* p. 336, spp. n. Pennsylvania figs., CARPENTER t.c.

Tcholmanvissidae fam. n. p. 153, ZALESSKY Ann. Soc. ent. Fr. 103.

Tcholmanvissia explicator sp. n. Tikhia Gory p. 154 fig., ZALESSKY t.c.

Trilophomylacris gen. n. p. 284, PRUVOST Ann. Soc. géol. Nord 43 1920.

Megasecoptera.

Foririidae fam. n. p. 170, HANDLIERSCH Handb. Ent. 3 1920.

Parabrodiidae fam. n. p. 365, CARPENTER Univ. Kansas Sci. Bull. 21.

Parabrodia gen. n., *carbonaria* sp. n. carboniferous, Kansas p. 366 fig., CARPENTER t.c.

Palaeodictyoptera

Anthracosta gen. n. type *duboisii* sp. n. p. 147, PRUVOST Mém. Mus. Hist. nat. Belg. 44 1930.

Boltoniella uniformis sp. n. Br. coal measures p. 278 figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Rectineura lineata sp. n. Br. coal measures p. 281 figs., BOLTON t.c.

Sabitaptus gen. n. type *lagagei* Pruv. p. 149, PRUVOST Mém. Mus. H.n. Belg. 44 1930.

Sherborniella hemingwayi sp. n. Br. coal measures p. 279 figs., BOLTON Quart. J. geol. Soc. Lond. 90.

Synaptoneura gen. n., *champti* sp. n. N. France coal fields p. 284, PRUVOST Ann. Soc. géol. Nord 43 1920.

Hapaloptera.

Ampeliptera gen. n. type *limburgica* Pruv. p. 76, PRUVOST Geol. Bur. ned. Mij. Heerlen 1926 1927.

Hapaloptera obovata p. 295, *parallela* p. 297, spp. n. Br. coal measures figs., BOLTON Quart. J. geol. Soc. Lond. 90.

ERRATA.

Vol. xlv, 1909, p. 391, 2nd col., for "*Xestonyttus*" read "*Xystonyttus*"

Vol. xlvii, 1910, p. 316, 2nd col., line 25, for "SEITZ" read "HÄNSCH in SEITZ"

Vol. xlix, 1912, p. 288, 1st col., line 4, for "*fromonae*" read "*pomonae*"

Vol. xlix, 1912, p. 383, 1st col., for "*Euicrium*" read "*Euricrium*"

Vol. xlix, 1912, p. 385, 2nd col., line 13, for "*relata*" read "*velata*"

Vol. l, 1913, p. 247, 1st col., for "*Plinthelomeleus*" read "*Plinthomeleus*"

Vol. l, 1913, p. 300, 2nd col., for "*Chrysoatomioidea*" read "*Chrysoatomoides*"

Vol. l, 1913, p. 301, 2nd col., for "*Dialomella*" read "*Diaulomella*"

Vol. l, 1913, p. 305, 1st col., for "*Neonacryptus*" read "*Neoanacryptus*"

Vol. l, 1913, p. 307, 2nd col., 4 lines from end, for "p. 247" read "p. 267"

Vol. l, 1913, p. 309, 2nd col., for "*Sympiesomorphellus*" read "*Sympiesomorphelleus*" and for "*Syntomosphrella*" read "*Syntomosphyrella*"

Vol. l, 1913, p. 429, 2nd col., for "*Xanthonachis*" read "*Xanthorrhachis*"

Vol. li, 1914, p. 198, 1st col., for "*Gyrolassella*" read "*Gyrolasella*"

Vol. lii, 1915, p. 242, 2nd col., for "*Takomyia*" read "*Takaomyia*"

Vol. liii, 1916, p. 205, 2nd col., for "*Anemoses*" read "*Anomoses*"

Vol. liii, 1916, p. 217, 2nd col., 9 lines from end, should read "gen. n.; *Jaapiella* gen. n., *catariae*, *cirsicola*" and 5 lines from end, for "*Lathyromysa*" read "*Lathyromyza*"

Vol. liii, 1916, p. 232, 1st col., for "*Promiltogramma*" read "*Protomiltogramma*"

Vol. liv, 1917, p. 204, 2nd col., for "*Enterponosia*" read "*Euterpnosia*"

Vol. lv, 1918, p. 231, 1st col., 16 lines from end, "*pini, densiflorae* spp. n." should read "*pinidensiflorae* sp. n."

Vol. lvii, 1920, p. 142, 1st col., for "*Schizomena*" read "*Schizomma*"

Vol. lvii, 1920, p. 175, 1st col., and p. 176, 2nd col., line 23, for "*Antillomyrmex*" read "*Antillaemyrmex*"

Vol. lvii, 1920, p. 208, 1st col., for "*Poelassothys*" read "*Polelassothys*"

Vol. lvii, 1920, p. 258, 2nd col., for "*Chamaepsila*" read "*Chamaespila*"

Vol. lvii, 1920, p. 262, 1st col., for "*Soziospila*" read "*Sosiospila*"

Vol. lvii, 1920, p. 280, 2nd col., for "*Anomalara*" read "*Anomalura*"

Vol. lviii, 1921, p. 228, 2nd col., 18 lines from end, for "*magnifrons*" read "*marginifrons*"

Vol. lviii, 1921, p. 229, 1st col., line 9, for "pp. 145, 144" read "pp. 147, 145"; line 13, insert "p. 100" after "*leptocerus*"; 2nd col., line 10, for "p. 163" read "p. 103"

Vol. lviii, 1921, p. 238, 2nd col., for "*Schoederella*" read "*Schroederella*"

Vol. lix, 1922, pp. 12 (No. 173), 378 (and throughout Dolichopodidae), for "1922" read "1921"

Vol. lix, 1922, pp. 121 (No. 2702), 339 (and throughout Pyralidae), correct date is (1918) 1919.

Vol. lix, 1922, p. 381, 2nd col., for "*Solidosominae* and *Solidosoma*" read "*Stolidosominae* and *Stolidosoma*"

Vol. lix, 1922, p. 387, 2nd col., for "*Sabatina*" read "*Sabinata*"

Vol. lix, 1922, p. 391, 1st col., for "*Hyolobata*" read "*Hyobobata*"

Vol. lx, 1923, p. 131, 1st col., for "*Ophonominus*" read "*Ophonomimus*"

Vol. lxii, 1925, pp. 94 (No. 2112), 404 (2nd col., 3 lines from end), 405 (1st col., line 4), correct date is (1923) 1924.

Vol. lxii, 1925, p. 174, 1st col., for "*Oxyota*" read "*Ocyota*"

Vol. lxii, 1925, p. 192, 1st col., for "*Hylobanus*" read "*Xylobanus*"

Vol. lxii, 1925, p. 193, 1st col., for "*Pseudosynchomus*" read "*Pseudo-synchonnus*"

Vol. lxii, 1925, p. 222, 1st col., for "*Apocemis*" read "*Apocemus*"

Vol. lxii, 1925, p. 253, 1st col. last line, 2nd col. 1st line, for "*Potomanax* and *Potomanaxas*" read "*Potamanax* and *Potamanaxas*"

Vol. lxii, 1925, p. 267, 1st col., for "*Aricima*" read "*Aracima*"

Vol. lxii, 1925, p. 272, 1st col., for "*Tridoptera*" read "*Tigridoptera*"

Vol. lxii, 1925, p. 279, 1st col., transfer *Glyptomorpha* to BRACONIDAE.

Vol. lxii, 1925, p. 281, 2nd col., for "*Thlecteria*" read "*Thelcteria*"

Vol. lxii, 1925, p. 324, 1st col., transfer *Bonnetia* to TACHINIDAE.

Vol. lxii, 1925, p. 328, 1st col., for "*Autodiplosis*" read "*Antodiplosis*"

Vol. lxii, 1925, p. 343, 1st col., for "*Hirta*" read "*Hirtea*"

Vol. lxii, 1925, p. 348, 1st col., for "*Atomasia*" read "*Atomosia*"

Vol. lxii, 1925, p. 383, 1st col., for "*Plagionotus*" read "*Plagiognathus*"

Vol. lxii, 1925, p. 390, 1st col., line 34, 2nd col., line 10, for "*Goscarta*" read "*Eoscarta*"

Vol. lxii, 1925, p. 412, 1st col., for "*Cosmozosteira*" read "*Cosmozosteria*"; and 2nd col., for "*Phylloblatta*" read "*Phyloblatta*"

Vol. lxiii, 1926, p. 185, 2nd col., transfer *Euxestus* to COLYDIIDAE.

Vol. lxiii, 1926, p. 227, 2nd col., transfer *Cycos* to LAMIIDAE.

Vol. lxiii, 1926, p. 230, 1st col., line 26, and p. 231, 1st col., for "*Mycerinella*" read "*Mycerinicella*"

Vol. lxiii, 1926, p. 230, 2nd col., lines 23, 30, for "*Homoeomorpha*" read "*Homonaecomorpha*"

Vol. lxiii, 1926, p. 260, 2nd col., for "*Goedema*" read "*Geodema*" and transfer to GEOMETRIDAE.

Vol. lxiii, 1926, p. 276, 1st col., for "*Meliattha*" read "*Maliattha*"

Vol. lxiii, 1926, p. 287, 1st col., for "*Madara*" read "*Mardara*"

Vol. lxiii, 1926, p. 293, 2nd col., lines 6 and 7, delete whole entry.

Vol. lxiii, 1926, p. 311, 2nd col., transfer *Nephoteryx* to PYRALIDAE.

Vol. lxiii, 1926, p. 325, 1st col., for "*Sarapoda*" read "*Saropoda*"

Vol. lxiii, 1926, p. 336, 2nd col., lines 7 and 13 from end, for "*Catoteleia*" read "*Caloteleia*"

Vol. lxiii, 1926, p. 351, 2nd col., for "*Rhimphocotona*" read "*Rhimphoctona*"

Vol. lxiii, 1926, p. 371, 2nd col., and p. 372, 1st col., line 15, for "*Alactina*" read "*Allactina*"

Vol. lxiii, 1926, p. 375, 2nd col., for "*Pseudatrachia*" read "*Pseudatrichia*"

Vol. lxiii, 1926, p. 376, 1st col., for "*Rhadnius*" read "*Rhadinus*"

Vol. lxiii, 1926, p. 389, 1st col., for "*Euclesia*" read "*Uclesia*" and for "*Eumacronycha*" read "*Eumacronychia*"

Vol. lxiii, 1926, p. 390, 1st col., and p. 393, 1st col., line 23, for "*Idelliopsis*" read "*Idielliopsis*"

Vol. lxiii, 1926, p. 408, 2nd col., for "*Psychomiella*" read "*Psychomyiella*"

Vol. lxiii, 1926, p. 415, 2nd col., for "*Craspedium*" read "*Craspedum*"

Vol. lxiii, 1926, p. 428, 1st col., for "*Pyrgolyrium*" read "*Pyrgophyllum*"

Vol. lxiv, 1927, pp. 81 (No. 1839), 367 (2nd col., lines 6, 16, 22, 30, 36), 369 (1st col., line 15, 2nd col., lines 9, 20, 26), 370 (1st col., lines 21, 50), 371 (1st col., line 21), 399 (2nd col., lines 14, 21), 400 (1st col., lines 7, 21, 31), correct date is (1922) 1923.

Vol. lxiv, 1927, p. 209, 1st col., for "*Zenographus*" read "*Zenagrphus*"

Vol. lxiv, 1927, p. 241, 1st col., for "*Oodemnias*" read "*Orodemnias*"

Vol. lxiv, 1927, p. 251, 1st col., lines 32, 35, for "*Asthenioides*" read "*Astheniodes*"

Vol. lxiv, 1927, p. 257, 1st col., for "*Zamara*" read "*Zamacra*"

Vol. lxiv, 1927, p. 258, 2nd col., transfer *Adelpha* to NYMPHALIDAE.

Vol. lxiv, 1927, p. 263, 2nd col., for "*Chalcoscelis*" read "*Chalcocelis*"

Vol. lxiv, 1927, p. 288, 2nd col., for "*Neudryinus*" read "*Neodryinus*"

Vol. lxiv, 1927, p. 290, 2nd col., transfer *Aphilanthops* to SPHEGIDAE.

Vol. lxiv, 1927, p. 294, 2nd col., transfer *Myrmecochara* to STAPHYLINIDAE.

Vol. lxiv, 1927, p. 295, 1st col., delete whole entry under *Phoximus*.

Vol. lxiv, 1927, p. 335, 2nd col., 8 lines from end, before *sp. n.* insert "*minor*"

Vol. lxiv, 1927, p. 337, 1st col., for "*Gallicera*" read "*Callicera*"

Vol. lxiv, 1927, p. 342, 1st col., for "*Camptos*" read "*Camptops*"

Vol. lxiv, 1927, p. 348, 2nd col. and p. 349, 2nd col., line 7, for "*Oxydosphuria*" read "*Oxydosphyria*"

Vol. lxiv, 1927, p. 357, 2nd col., for "*Carataulina*" read "*Cerataulina*"

Vol. lxiv, 1927, p. 368, 2nd col. and p. 370, 1st col., line 26, for "*Brachyneurus*" read "*Brachynemurus*"

- Vol. lxiv, 1927, p. 374, 1st col., for "*Melandiola*" read "*Malandiola*"
- Vol. lxiv, 1927, p. 377, 2nd col., for "*Holabatopsis*" read "*Halobatopsis*"
- Vol. lxv, 1928, p. 165, 1st col., line 4, for "p. 58" read "p. 17"
- Vol. lxv, 1928, p. 170, 2nd col., for "*Orectophilus*" read "*Orectochilus*"
- Vol. lxv, 1928, p. 198, 1st col., for "*Pypichaeta*" read "*Pygichaeta*"
- Vol. lxv, 1928, p. 205, 2nd col., for "*Prionololytta*" read "*Prionotolytta*"
- Vol. lxv, 1928, p. 215, 1st col., for "*Lysturus*" read "*Lystrus*"
- Vol. lxv, 1928, p. 256, 1st col., for "*Prospalta*" read "*Prospalta*"
- Vol. lxv, 1928, p. 262, 1st col., for "*Neopheogia*" read "*Neopheosia*"
- Vol. lxv, 1928, p. 265, 2nd col., for "*Dilophopes*" read "*Dilophodes*" and for "*Esturgia*" read "*Isturgia*"
- Vol. lxv, 1928, p. 268, 1st col., for "*Perenia*" read "*Percnia*"
- Vol. lxv, 1928, p. 272, 2nd col., for "*Protocraga*" read "*Protacraga*"
- Vol. lxv, 1928, p. 275, 1st col., and p. 276, 2nd col., 16 lines from end, for "*Canthela*" read "*Canthelea*"
- Vol. lxv, 1928, p. 278, 1st col., transfer *Paranarsia* to TINEIDAE.
- Vol. lxv, 1928, p. 299, 2nd col., for "*Microodynerus*" read "*Microdynerus*"
- Vol. lxv, 1928, p. 311, 1st col., for "*Apechthus*" read "*Apechthis*"
- Vol. lxv, 1928, p. 355, 2nd col., transfer *Blaesochaetophora* and *Camaterus* to HELOMYZIDAE, and for *C. cichaeta* read *dichaeta*.
- Vol. lxv, 1928, p. 356, 1st col., transfer *Chrysomyza* and *Clio chloria* to ORTALIDAE; *Chlorismia* to THEREVIDAE and *Cnemoplegas* to MILICHIDAE.
- Vol. lxv, 1928, p. 357, 2nd col., transfer *Pelomyia* to AGROMYZIDAE and *Polphopsis* to ORTALIDAE.
- Vol. lxv, 1928, p. 377, 2nd col., for "*Centrosmylus*" read "*Centrolysmus*"
- Vol. lxv, 1928, p. 383, 2nd col., for "*Leptosia*" read "*Leptostyla*"
- Vol. lxv, 1928, p. 402, 1st col., for "*Rhopalosiphunicus*" read "*Rhopalosiphoninus*"
- Vol. lxv, 1928, p. 406, 2nd col., p. 407, 1st col., line 9, for "*Archaeothrips*" read "*Archaeolothrips*"
- Vol. lxvi, 1929, p. 199, 2nd col., line 9, for "*indaeus*" read "*judaeus*"
- Vol. lxvi, 1929, p. 210, 2nd col., for "*Adorenius*" read "*Arodenius*"
- Vol. lxvi, 1929, p. 212, 2nd col., Cholina is a group and not a genus.
- Vol. lxvi, 1929, p. 216, 2nd col., transfer *Megacerus* to BRUCHIDAE.
- Vol. lxvi, 1929, p. 269, 2nd col., for "*Euchoria*" read "*Eurychoria*"
- Vol. lxvi, 1929, p. 313, 1st col., transfer *Cales* to ENCORTIDAE.
- Vol. lxvi, 1929, p. 354, 1st col., 13 lines from end, and p. 355, 2nd col., for "*Myodexia*" read "*Myzodexia*"
- Vol. lxvi, 1929, p. 377, 2nd col., for "*Plascosternum*" read "*Placosternum*"
- Vol. lxvi, 1929, p. 407, 1st col., for "*Solenoptes*" read "*Solenopotes*"
- Vol. lxvi, 1929, p. 410, 1st col., for "*Kempynia*" read "*Kempnyia*"
- Vol. lxvi, 1929, p. 414, 2nd col., for "*Sympecna*" read "*Sympecma*"
- Vol. lxvi, 1929, p. 426, 2nd col., for "*Faurea*" read "*Faureia*"
- Vol. lxvi, 1929, p. 434, 2nd col., for "*Samura*" read "*Samarura*"
- Vol. lxvii, 1930, pp. 72, No. 1531, for "pp. 65-101" read "pp. 85-101"
- Vol. lxvii, 1930, p. 108, No. 2392, and pp. 357, 358 (throughout ANTHOMYIIDAE) correct date is 1911, not 1912.
- Vol. lxvii, 1930, p. 173, 2nd col., for "*Platysmatus*" read "*Platysma*"

- Vol. lxvii, 1930, p. 181, 2nd col., for "*Tomoxella*" read "*Tomoxelia*"
- Vol. lxvii, 1930, p. 193, 1st col., for "*Bicladon*" read "*Bicladum*"
- Vol. lxvii, 1930, p. 205, 2nd col., for "*Idanerces*" read "*Indanerces*"
- Vol. lxvii, 1930, p. 212, 2nd col., transfer *Amaurosoma* to CORDYLURIDAE.
- Vol. lxvii, 1930, p. 214, 1st col., for "*Ceratopina*" read "*Ceratopus*"
- Vol. lxvii, 1930, p. 221, 1st col., for "*Tychina*" read "*Thysanocnemis*"
- Vol. lxvii, 1930, p. 233, 2nd col., for "*Sphilophora*" read "*Spilophora*"
- Vol. lxvii, 1930, p. 259, 2nd col., for "*Cucula*" read "*Culcula*"
- Vol. lxvii, 1930, p. 260, 2nd col., for "*Euconista*" read "*Enconista*"
- Vol. lxvii, 1930, p. 267, 1st col., transfer *Arbela tabidus* to NABIDAE.
- Vol. lxvii, 1930, p. 298, 1st col., delete entry under *Gastropsis*.
- Vol. lxvii, 1930, p. 299, 1st col., for "*Oxymyrmex*" read "*Ocymyrmex*"
- Vol. lxvii, 1930, p. 307, 1st col., for "*Craspis*" read "*Acraspi's*"
- Vol. lxvii, 1930, p. 333, 2nd col., delete entry under *Brachystomus*.
- Vol. lxvii, 1930, p. 334, 1st col., line 20, for "(= *Brachystomus*" read "(= *N. brachystomus*"
- Vol. lxvii, 1930, p. 369, in errata, 6 and 7 lines from end, delete entry.
- Vol. lxvii, 1930, p. 393, 1st col., for "*Paraziphopoeus*" read "*Paraxiphopoeus*"
- Vol. lxvii, 1930, p. 421, 2nd col., for "*Microphasma*" read "*Mirophasma*" and for "*Monomera*" read "*Manomera*"
- Vol. lxviii, 1931, pp. 37 (No. 648), 44 (No. 823), 48 (No. 922), 77 (No. 1595), 191 (1st col., lines 27, 30), 220-228 (throughout Curculionidae), 366 (1st col., line 1), 393 (1st col., line 3), 394 (1st col., line 33), 401 (1st col., line 14) for "66" read "56."
- Vol. lxviii, 1931, p. 206, 1st col., for "*Nastelia*" read "*Nastella*"
- Vol. lxviii, 1931, p. 226, 1st col., line 30 and p. 227, 1st col., for "*Reoxyonyx*" read "*Neoxyonyx*"
- Vol. lxviii, 1931, p. 230, 2nd col., for "*Eubractus*" read "*Eubractus*"
- Vol. lxviii, 1931, p. 248, 2nd col., for "*Bombellus*" read "*Bombus*"
- Vol. lxviii, 1931, p. 257, 1st col., for "*Pachynoderus*" read "*Pachodynerus*"
- Vol. lxviii, 1931, p. 289, 1st col., for "*Cerocladia*" read "*Cercocladia*"
- Vol. lxviii, 1931, p. 293, 1st col., for "*Eutrostia*" read "*Eustrotia*"
- Vol. lxviii, 1931, p. 299, 1st col., for "*Zangra*" read "*Zaranga*"
- Vol. lxviii, 1931, p. 301, 2nd col., for "*Euphia*" read "*Euphyia*"
- Vol. lxviii, 1931, p. 314, 1st col., for "*Ramilla*" read "*Ramila*"
- Vol. lxviii, 1931, p. 324, 1st col., for "*Antictenistis*" read "*Antictenista*"
- Vol. lxviii, 1931, p. 332, 1st col., for "*Madrasta*" read "*Madrastra*"
- Vol. lxviii, 1931, p. 371, 2nd col., 2 and 20 lines from end, for "*Notospila*" read "*Notopsila*"
- Vol. lxviii, 1931, p. 417, 1st col., lines 12 and 42, for "*Jalia*" read "*Jalla*"
- Vol. lxix, 1932, p. 230, 1st col., for "*Miridiva*" read "*Miridiba*"
- Vol. lxix, 1932, p. 235, 2nd col., for "*Deraconus*" read "*Deroconus*"
- Vol. lxix, 1932, p. 237, 1st col., for "*Hemilcopus*" read "*Hemicolpus*"
- Vol. lxix, 1932, p. 242, 2nd col., for "*Xetatmetus*" read "*Hetatmetus*"
- Vol. lxix, 1932, p. 275, 1st col., for "*Kobunus*" read "*Cobunus*"
- Vol. lxix, 1932, p. 310, 1st col., transfer *Pandemis* to TORTRICIDAE.
- Vol. lxix, 1932, p. 313, 1st col., 5 and 17 lines from end, for "*takamakui*" read "*takamakui*"

Vol. lxix, 1932, p. 320, 1st col., entry under *Hipparchus* should read "*Hipparchus xeromeris* sp. n. Sumatra p. 76; *albovenaria* subsp. n. latirigua Szechwan p. 75"

Vol. lxix, 1932, p. 328, 1st col., line 29, after "spp. n." insert Borneo.

Vol. lxix, 1932, p. 321, 2nd col., for "*Pachynema*" read "*Pachyncemia*"

Vol. lxix, 1932, p. 328, 1st col., 3 and 5 lines from end, for "*Spatulicraspida*" read "*Spatulicraspeda*"

Vol. lxix, 1932, p. 370, 2nd col., transfer *Leptocera* to BORBORIDAE.

Vol. lxix, 1932, p. 434, 1st col., for "*Carlippa*" read "*Carlippia*"

Vol. lxix, 1932, p. 437, 1st col., for "*Pareumigus*" read "*Paraemigus*"

Vol. lxx, 1933, p. 61 (No. 1219) and p. 338, 2nd col., line 3, for "**22**" read "**20**"

Vol. lxx, 1933, p. 66 (No. 1334) and throughout Curculionidae, for "**14**" read "**15**"

Vol. lxx, 1933, p. 191, 2nd col., transfer *Antroherpon* to SILPHIDAE.

Vol. lxx, 1933, p. 193, 2nd col., transfer *Drimeotus* to SILPHIDAE.

Vol. lxx, 1933, p. 194, 2nd col., transfer *Leonhardella* to SILPHIDAE.

Vol. lxx, 1933, p. 196, 1st col., transfer *Platysoma* to HISTERIDAE; and 2nd col., transfer *Remyella* to SILPHIDAE.

Vol. lxx, 1933, p. 198, 1st col., 7 lines from end, and 2nd col., line 4, delete "*Paraliaphlus* subgen. n."

Vol. lxx, 1933, p. 200, 1st col., for "*Acrostica*" read "*Acrostiba*"

Vol. lxx, 1933, p. 209, 1st col., transfer *Mycetoma* and *Orchesia* to MELANDRYIDAE.

Vol. lxx, 1933, p. 212, 1st col., transfer *Hydaticus* to DYTISCIDAE.

Vol. lxx, 1933, p. 213, 2nd col., transfer *Xyloterus* to SCOLYTIDAE.

Vol. lxx, 1933, p. 239, 2nd col., for "*Nesmicrocopes*" read "*Neomicrocopes*"

Vol. lxx, 1933, p. 252, 1st col., for "*Leucastea*" read "*Leucastra*"

Vol. lxx, 1933, p. 257, 2nd col., for "*Hispiella*" read "*Hispella*"

Vol. lxx, 1933, p. 263, 1st col., for "*Lepidariobombus*" read "*Lapidario-bombus*"

Vol. lxx, 1933, p. 281, 2nd col., line 23 and p. 282, 2nd col., for "*Monontus*" read "*Monontos*"

Vol. lxx, 1933, p. 282, 1st col., transfer *Macrocentrus* to BRACONIDAE.

Vol. lxx, 1933, p. 302, 1st col., for "*Badhamia*" read "*Badamia*"

Vol. lxx, 1933, p. 305, 2nd col., transfer *Metarctia* to SYNTOMIDAE.

Vol. lxx, 1933, p. 306, 1st col., for "*Phryganoptera*" read "*Phryganopteryx*"

Vol. lxx, 1933, p. 317, 1st col., for "*Maasenia*" read "*Maassenia*"

Vol. lxx, 1933, p. 320, 1st col., transfer *Carsia* to NOCTUIDAE; 2nd col., transfer *Cimelia* to THYATRIDAE.

Vol. lxx, 1933, p. 323, 2nd col., transfer *Polypoetes* to DIOPTIDAE.

Vol. lxx, 1933, p. 333, 1st col., for "*Nippotilia*" read "*Stenoptilia*" and line 23 for "*janicus*" read "*japonicus*"

Vol. lxx, 1933, p. 336, 2nd col., for "*Narcyia*" read "*Narycia*"

Vol. lxx, 1933, p. 359, 1st col., line 24, and 2nd col., for "*Ophiodesmia*" read "*Ophiodesma*"

Vol. lxx, 1933, p. 367, 1st col., for "*Medetaria*" read "*Medetera*"

Vol. lxx, 1933, p. 370, 1st col., for "*Erisyrphus*" read "*Episyrphus*"

Vol. lxx, 1933, p. 386, 1st col., transfer *Cacoxenus* to MILICHIDAE.

Vol. lxx, 1933, p. 387, 2nd col., transfer *Trichobius* to STREBLIDAE.

Vol. lxx, 1933, p. 424, 2nd col., for "*Endromiella*" read "*Eudromiella*"

XII. PROTOCHORDATA

INCLUDING

ENTEROPNEUSTA AND PTEROBRANCHIA

BY

M. BURTON, M.Sc.

CONTENTS.

| | PAGE |
|---------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX | 4 |
| III. SYSTEMATIC INDEX | 5 |

I.—TITLES.

- 1.—Ärnback - Christie - Linde, A. Northern and Arctic invertebrates in the collection of the Swedish State Museum (Riksmuseum). K. svenska Vetensk Akad. Handl. (3) 13 3 1934 pp. 3-91 6 pls. 22 figs.
- 2.—Bacq, Z. M. Observations physiologiques sur le cœur, les muscles et le système nerveux d'une Ascidie (*Ciona intestinalis*). Bull. Acad. Belg. Cl. Sci. (5) 20 11 1934 pp. 1042-1061 5 figs.
- 3.—Bacq, Z.-M. Ablation du ganglion nerveux chez une Ascidie (*Ciona intestinalis*). C.R. Soc. Biol. Paris 117 31 1934 pp. 485-486.
- 4.—Bacq, Z. M. Absence de réactions du cœur d'une Ascidie (*Ciona intestinalis*) à l'adrénaline, à l'acétylcholine et aux ions K, Ca et Ba. C.R. Soc. Biol. Paris 117 31 1934 pp. 486-487.
- 5.—Bacq, Z.-M. and Monnier, A.-M. Action du système nerveux autonome et de ses mimétiques sur la polarisation des muscles lisses. C.R. Soc. Biol. Paris 117 35 1934 pp. 871-873.
- 6.—Bernstein, T. Zooplankton des nördlichen Teiles des Karischen Meeres [Russian]. Trans. Arctic Inst. Lenin-grad 9 1924 pp. 3-58 14 figs. [Résumé pp. 46-58.] [Proch. p. 36.]
- 7.—Brambell, F. W. R. and Cole, H. A. Occurrence of an Enteropneust in Wales. Nature London 133 3372 1934 p. 913.
- 8.—Cary, L. R. Growth of some tissues of *Ptychodera bahamensis* in vitro. Pap. Tortugas Lab. Carn. Instn. 28 1934 pp. 195-213 4 pls. 1 fig.
- 9.—Chin, T. G. A preliminary report on Amoy Tunicata. Lingnan Sci. Journ. Canton 13 3 1934 pp. 487-491 2 pls.
- 10.—Cole, H. A. *vide* Brambell, F. W. R. Colman, J. S. *vide* Russell, F. S.
- 9a.—Deviney, E. M. The behaviour of isolated pieces of Ascidian (*Perophora viridis*) stolon as compared with ordinary budding. J. Elisha Mitchell, Sci. Soc. Chapel Hill 49 (2) 1934 pp. 185-224 3 pls.
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- 13.—Fedele, M. Sulla nutrizione degli animali pelagici. III. Ricerche sui Salpidae. Boll. Soc. Nat. Napoli 45 1934 pp. 49-117 13 figs.
- 14.—Fenton, M. A. and C. L. *Scolithus* as a fossil Phoronid. Pan-Amer. Geol. Des Moines 61 (5) 1934 pp. 341-348 1 pl. 1 fig.
- 15.—Firth, F. E. An occurrence of a tunicate killing a fish. Bull. Boston Soc. Nat. Hist. 69 1933 p. 3.
- 16.—Fischer-Piette, E. Etudes dynamiques de bionomie marine. Variations de la faune et de la flore d'une année à une autre. Résultats pour 1929-1930. Bull. Lab. Mus. Hist. nat. St. Servan 5 1930 pp. 25-39.
- 17.—Fischer-Piette, E. Faune et flore de Saint Servan en 1932. Bull. Lab. Mus. Hist. nat. St. Servan 10 1932. [Protochordates p. 31.]
- 18.—Florkin, M. Sur un caractère, souvent mal interprété, du milieu intérieur des Ascidies. C.R. Soc. Biol. Paris 117 38 1934 pp. 1226-1228.
- 19.—Franz, V. Einige Einzelheiten an den Nephridien von *Branchiostoma lanceolatum* (*Amphioxus*). Z. mikr. anat. Forsch. Leipzig 35 1934 pp. 501-516 10 figs.

20.—Goodrich, E. S. The early development of the nephridia in *Amphioxus*: Introduction and Part I. Hatschek's nephridium. Part II. The paired nephridia. Quart. J. Micr. Sci. London N.S. **76** 1934 pp. 499–510, 655–674 6 pls. 5 figs.

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23.—Harant, H. and Vernières, P. Tuniciers pélagiques provenant des croisières du Prince Albert 1er de Monaco. Rés. Camp. sci. Monaco **88** 1934 pp. 1–48 5 figs.

24.—Huus, J. Ascidiacea. Grimpe. Die Tierwelt der Nord u. Ostsee Lfg. 25 Teil 12 a 3 Leipzig 1933 pp. 49–115 63 figs.

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31.—MacBride, E. W. Echinoderma (Part II) and Enteropneusta. Larvae of Echinoderma and Enteropneusta. Brit. Ant. (Terra Nova) Exped. 1910 Nat. Hist. Rep. Zool. **4** 3 1920 pp. 83–94 2 pls.

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33a.—Michaelsen, W. The Ascidiaceans of the Cape Province of South Africa. Trans. Roy. Soc. S. Afr. **22** 2 1934 pp. 129–163 1 pl.

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II.—SUBJECT INDEX.

STRUCTURE.

BACQ, 2; FRANZ, 19; JACOBSHAGEN, 26; KAPPERS, 27; MATTHES, 32; PAYNE, 41; VON BONDE, 53; WOLLENHAUPT, 55.

PHYSIOLOGY.

BACQ, 2-4; BACQ & MONNIER, 5; FEDELE, 12; FLORKIN, 18; KOBAYASHI, 28; LEDERER, 29; LÖNNBERG, 30.

DEVELOPMENT.

GOODRICH, 20; GRAVE, 21; NICOLL, 22; PAYNE, 41; THOMPSON, 48a; TUNG, 49.

ETHOLOGY.

FEDELE, 13; bionomics, FIRTH, 15; ecology, FISCHER-PIETTE, 16; regeneration, CARY, 8; regeneration and dedifferentiation, PASQUINI, 40; DEVINEY, 9a.

DISTRIBUTION.

North Atlantic and Arctic, ÄRNBACK-CHRISTIE-LINDE, 1; Arctic, BERNSTEIN, 6; North and Baltic Seas, HUUS, 24; Baltic Sea, REMANE, 45; British Isles, ELMHIRST, 10; Scotland, THOMPSON, 48a; Wales, BRAMBELL & COLE, 7; Holland, ENGEL, 11; France, FISCHER-PIETTE, 17; VERNIÈRES, 52; Russia, VAN DER HORST, 50; Mediterranean, HARANT & VERNIÈRES, 23; Azores, HARANT & VERNIÈRES, 23; S. Africa, MICHAELSEN, 33a; India, PRASHAD, 42; China, CHIN, 9; Japan, OKA, 34-38; Kurile Islands, OKA, 39; Canada, PREFONTAINE, 43; Australia, RUSSELL & COLMAN, 48; WHITLEY, 54; Kerguelen, RIDWOOD, 46; Antarctic, MACBRIDE, 31; RIDWOOD, 47.

III.—SYSTEMATIC INDEX.

TUNICATA.

General, HUUS, IHLE, LOHMANN & NEUMANN 25; of North Atlantic and Arctic, ÄRNBACK-CHRISTIE-LINDE, 1; of Scotland, THOMPSON, 48a; of Mediterranean and Azores, HARANT & VERNIÈRES 23.

Ascidacea, general, HUUS 24.

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14.

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BY

M. BURTON, M.Sc.

CONTENTS

| | PAGE |
|--------------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX | 39 |
| General and Economics | 39 |
| Structure | 40 |
| Development | 40 |
| Physiology | 41 |
| Ethology | 42 |
| Variation and Evolution | 43 |
| Distribution | 43 |
| III. SYSTEMATIC INDEX | 45 |

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II.—SUBJECT INDEX.

GENERAL AND ECONOMICS.

Technique; HOLLISTER, 370: aquarium fishes; GUDGER, 318: HOLLY, MEINKEN & RACHOW, 373: LADIGES, 451: bibliography of age and growth; MOHR, 530: experiments with triangular trawl for bathypelagic collecting; PAER, 584: deep-sea fishes; ROULE, 661. General; RAPP, 638: REV., 646: WALTER, 820: trade in live fish; HORA, 380: fish as larvicides; GUIMARÃES, 321: GUPPY, 324: REES, 641: TOUMANOFF, 792: Investigations on fisheries of: Barents Sea and Bear Island; LUNDBECK, 492: Gt. Britain; LONG, 482: Sweden; HESSLE, 357: Baltic; ALM, 9: Finland; JÄRVI, 414: Germany; BER., 42: Roumania; BORCEA, 71: Central Europe; MEHRING, 526: PROBST,

625: Black Sea; ANTIPA, 14: Egypt; WIMPENNY, 842, 843: Morocco and West Africa; BELLOC, 41: S. Africa; MARCHAND, 509: VON BONDE, 815: E. Africa; COPLEY, 166: Philippines; UMALI, 799: VILLADOLID, 807: China; HOFFMANN, 368: New Zealand; HEFFORD, 342: Canada; MCKENZIE, 500: PRITCHARD, 623, 624: Investigations on:—*Acipenser*; ANTIPA, 13, 14: *A. sturio*; KULMATYCKI, 446: *Clupea harengus*; EGGUIN, 214: GALL, 267: GILSON, 281: HODGSON, 367: OGILVIE, 568: OTTESTAD, 575: RUNNSTRÖM, 663: STORROW, 743: STORROW & COWAN, 744: TESCH, 782: WOOD, 849: *Sardina*; HERRERO, 356: *S. caerulea*; CLARK, 160: HART, 337: SCOTFIELD, 705: *Salmo*; ALM, 9: DAHL, 173: KULMATYCKI, 447: MACFARLANE, 496: MCKEOWN, 502: NALL, 550: POULSEN, 617: PRYCE-TANNATT, 627: TANNER & HAYES, 767: ZARNECKI, 859: *S. salar*; STOKELL, 741: *S. fario*; ALTNÖDER, 10: *S. trutta*; DIXON, 201: NALL, 549: O'DONOGHUE & BOYD, 567: SLACK, 718: *Onchorhynchus nerka*; FOERSTER, 238: *Hucho hucho*; KULMATYCKI, 445: *Coregonus*; FRIEDENFELT, 259: SVETOVIDOV, 760: WAGLER, 819: *C. oxyrhynchus*; REDEKE, 640: *Thymallus villosus*; AWERINZEW, 23: *Anguilla*; HORNOLD, 387, 390-394: *Gadus*; ESSIOV, 221: *G. aeglefinus*; VLADYKOV, 813: *G. morhua*; DANNEVIG, 177: EGGVIN, 215: GRAHAM, 300, 301: ROLLEFSEN, 657: SUND, 755, 756: TÄNING, 766: *G. pollachius*; DANNEVIG & SØRENSEN, 179: *G. saia*; IVERSEN, 410a: *G. virens*; POULSEN, 616: *Pomatomus saltatrix*; GALL, 266: *Mullus barbatus*; ESSIOV, 222: *Ammodytes*; RAITT, 633: *Thynnus thynnus*; HELDT, 347: RUSSELL, 664: *Germo alalunga*; LEGENDRE, 459: *Pleuronectes platessa*; BJERKAN, 64: DANIEL & FLEMING, 176: *P. microcephalus*; BOWMAN, 84: *Solea vulgaris*; BÜCKMANN, 113.

Scale and otolith readings.—DANNEVIG & SØRENSEN, 179: DIEDERICH, 199: GODBY, 287: HORNOLD, 386, 389, 395: LEA, 455: MACDONAGH, 495: MOTTLEY, 537: NALL, 550: NESBIT, 552: OOSTEN, DEASON & JOES, 570: PARROTT, 586, 587: ROLLEFSEN, 656-658: SCHULTZ, 699: STOKELL, 741.

STRUCTURE.

General.—Of *Placodermi*; STENSIÖ, 738: †of *Arthrodira*; STENSIÖ, 739: WATSON, 824: of *Coccosteus decipiens*, HEINTZ, 342a; of *Tarrasius problematicus*; MOY-THOMAS, 541: of *Idiacanthus*; BEEBE, 35: of *Hymenocephalus italicus*; VINCIGUERRA, 808: of *Cottus gobio*, SCHREITMÜLLER, 697: of *Heterosomata*; NORMAN, 563: of *Mola mola*; GREGORY & RAVEN, 305: of shoulder girdle; HOWELL, 398.

Histology.—CAPRARO, 126: FOSI, 244: †GORIZDRO-KULCZYCKA, 298: †GROSS, 311: STEFANELLI, 734.

Cytology.—SANO, 670.

Tegumentary System.—Scales; BROTLIN, 102: lateral line; DAWSON, 181: sensory canals; ALLIS, 7: KOSSWIG, 438.

Nervous System.—Of *Sphyrna zygaena* and *Pliotrema warreni*; VON BONDE, 817: brain, STEFANELLI, 735: mid-brain; KAPPERS, 419: eye; FRANZ, 255: KAHMANN, 416: STUDNICKA, 749: olfactory organs; MATTHES, 521: ear; BOWEN, 82: ear; KIKUCHI, 426: WOHLFAHRT, 847: auditory apparatus; GRIFFIN, 307: central nervous system; HALLERSTEIN, 327: KAPPERS, 420: nerves; ABRAHÁM, 1b: BECCARI, 34: SCHARRER, 678: nerves of gut; ABRAHÁM, 1a: cranial nerves; ROYALSKI, 655: optic nerves; MEADER, 524: sympathetic nerves; HIRT, 364: MAYER & GRIFFIN, 523: nerve-endings; CEHOVSCHI, 127: electric organs; KAMP & STUART, 418: electric organs; STUART & KAMP, 747, 748.

Alimentary System.—Of *Carpoides cyprinus*; AITKEN, 5: gut; ABRAHÁM, 1b: ANTONIU, 15: SCHNACKENBECK, 689: spiral valve; JACOBSHAGEN, 411: swim-bladder; FACCIOLÀ, 224: pyloric caeca; SVETOVIDOV, 759.

Myology.—MARCUS, 510: RENDAHL, 643: SOUCHÉ, 729.

Osteology.—Of *Tetodon oblongus*; AWATI & BAL, 22: of *Novumbra hubbsi*; CHAPMAN, 142: †Homostiidae; HEINTZ, 343: of *Ctenopharyngodon idellus*; TCHANG & PAO, 779: skull; CHABANAUD, 135: cranium; BEHMACHAR, 57: †PIVETEAU, 614: REN-

DAHL, 644: VON BONDE, 817: jaws; LANZANI, 453: Weberian ossicles; SCHIFFERS, 681: girdles; DERJUGIN, GRIEB & TRIFONOWA, 189: pectoral fin; MOY-THOMAS & WHITE, 543: shoulder girdle; RENDAHL, 643: urohyal; CHABANAUD, 131.

Vascular System.—POTTER & SELF, 615: of *Tetodon oblongus*; AWATI & BAL, 21: of *Entosphenus tridentatus*; DANIEL, 175: myocardium, ZLABEK, 863: branchial arteries; BOURNE, 81: arteries; ABBIE, 1: blood; ORIA, 573.

Respiratory System.—Branchiae; BINET & VERNE, 60: gills; SCRIBAN, 707, 708: pseudobranch; KRYŽANOVSKY, 444: swim-bladder; POTTER & SELF, 615.

Reproductive System.—Of *Acipenseridae*; MASCHKOWZEFF, 513: of *Anguilla*; RODOLICO, 654: testes; DULZETTO, 208: ovary, DULZETTO, 209.

Excretory System.—Kidney; GERARD, 271.

Lymphatic System.—GLASER, 285.

Special Glands.—BARON, 27: DIAMARE, 198: DUSTIN, 210: GIACOMINI, 277, 278: GIOVANNI, 284: LELE, 464, 465: MAXIA, 522: PICCHIO, 604: SPRENNKEL, 732.

Comparative Anatomy.—JACOBSHAGEN, 411: SEWERTZOFF, 712.

DEVELOPMENT.

General.—Of *Lampetra fluviatilis*; WEISSENBERG, 828: of *Lampetra fluviatilis* and *L. planeri*; USSING, 800: of *Selachei*; RANZI, 636: of *Alosa finta*; CHIAPPI, 156: of *Sardina caerulea*; SCOFIELD, 705: of *Coregonus clupeaformis*; PRICE, 621, 622: of *Idiacanthus*; BEEBE, 35: of *Esox lucius*; SCHREITMÜLLER, 698: of Atlantic Syngnathids; BREDER, 91: of *Phalloceros caudimaculatus*; GUIMARÃES, 321: of Sparidae; GAETANI, 265: of *Uranoscopus scaber*; SALFI, 667: of *Luvarus imperialis*; ROULE, 659: of *Gobius paganellus*; SPARTÀ, 730: of *Dactylopterus volitans*; SANZO, 671: gastrulation; PASTEELS, 588.

Eggs.—BEEBE, 35: DAKIN & COLEFAX, 174: DELSMAN, 182, 183: NORMAN, 563: WINTREBERT, 844.

Embryos. — DERANIYAGALA, 187: FIRTH, 234.

Larvae and young.—BEEBE, 35: DUKIN & COLEFAX, 174: DELSMAN, 182, 183: DERANIYAGALA, 186: EGE, 213: GILTAY, 282: HILDEBRAND, 360: HUBBS & CHU, 403: LEGENDRE, 459: NICHOLS, 553: NORMAN, 563.

Organogeny.—Teeth; MOY-THOMAS, 542: scales; SETNA, 711: eye; GRÜNWALD, 312: nerves of heart; SZEPSZWOL & BAUMANN, 763: skull; HSUEH, 399: neurocranium; KOSKINEN, 437: lower jaw; SCHMÄH, 683: branchial skeleton; HAINES, 326: intervertebral ligament; MOOKERJEE, 535: blood; STOLZ-PICCHIO, 742: gills; PRICE, 620: genital system; MASCHKOWZEFF, 514-16: gonads; STROMSTEN, 745: claspers and claoeca; STEVEN, 740: excretory organs; ARMSTRONG, 17: thymus; LELE, 464: pigment; KOLLER, 434.

PHYSIOLOGY.

(Including experimental and chemical.)

Effect of ammoniacal salts on fish; SCHREURING & LEOPOLDSEDER, 680: pigmented oils; BURCKHARDT, HEILBRON, JACKSON & BARRY, 118: effects of pollution; ELLIS, 218: serum; FONTAINE, 240: osmosis; HEVESY & HOFER, 358: viability with changing salinity; HOLLISTER, 371: locomotion; HOLST, 375: encephalization; RIZZO, 652: encephalization and locomotion; RIZZO, 653: schooling; BOWEN, 83: growth; ALLER, BOWEN WELTY & OESTING, 6: BERTALANFFY, 50: BUCHANAN-WOLLASTON, 112: GALLIEN, 268: differential growth; LJUBITSKY & SVETLOV, 481: OPPENHEIMER, 571: morphogenesis; LJUBITSKY, 480: nutrition; BINI, 62: BOKOWA, 66: digestion; CHESLEY, 150: CHESLEY, 151: HYKES, MAZANEC & SZÉCSÉNYI, 407: KORSCHUJEW & KOSCHTOIANZ, 436: MACKMULL & MICHELS, 504: embryonic nutrition; RANZI, 637: contraction of embryonic gut; DOBREFF, 203: metabolism; GUIMARÃES & BERGAMIN, 322: fat

metabolism; LOVERN, 489, 490: pancreas; LEDRUT & ALRECHINSKY, 457: ZANCO, 858: digestive ferments; GUILLAUMIE, 319: kidney; GERARD, 271: GRAFFLIN & EISENBERG, 299: regeneration; BIRNIE, 63: TATARKO, 772: TRAMPUSCH, 793: regeneration and transplantation; SAUTER, 674: transplantation of tissues and development, OPPENHEIMER, 572: cerebellum; TUGE, 795: mid-brain; KAPPERS, 419: hypophysis; FLORENTIN, 236: cranial nerves; ROGALSKI, 655: nerve stimuli; PARKER, 577: response to electric stimuli; KOKUBO, 433: UZUKA, 801: stimuli due to changes in environment, ALLISON & COLE, 8: eye; STUDNITZ, 750, 751: vision; MAES, 505: MAGNAN, MAGNAN & VILLELONGUE, 507: SCHILLER, 682: sight; VERRIER, 806: depigmentation by excitation of optic lobes; ESTABLE, 223: hearing; FARKAS, 229: ear; LASAGNA, 454: STEINHAUSEN, 736, 737: labyrinth; FRISCH, 262: lateral line; DYKGRAAF, 212: WOELLWARTH, 846: blood; BAUDIN, 28: BOUCHER-FIRLY, 78-79: DEMENIER, 190: FONTAINE & BOUCHER-FIRLY, 241: FONTAINE & RAFFY, 242: ORIA, 573: REZNIKOFF, 647: TURNER, 796: VARS, 804: ZUNZ, 867: circulation of blood; DANIEL, 175: freezing point of blood; PEARSE, 590: coagulation of blood; ZUNZ, 864-866: relation between ossification and calcium in blood; FONTAINE, 239: erythrocytes; TAKAGI, 764: YASUZUMI, 855: respiration; BEVELANDER, 56: POWERS, 618: WIEBE, MCGAVOCK, FULLER & MARKUS, 838: WILLEM, 840: WILLMER, 841: intestinal respiration; SCHNEIDER, 690: pseudobranch; GRANEL, 303: respiration and heart-beat; DOBREFF, 202: asphyxiation; GHOSH, 276: anabiosis; BORODIN, 73: swim-bladder; RABAUD & VERNIER, 628-631: SCHREIBER, 692, 693: muscle; BINI, 61: CHAUCHARD & NOVEL, 144: SCHMIDT-NIELSEN & STENE, 688: thyroid; REMOTTI, 642: migration of lymph cells; LORETI, 488: hormones; MATOUSEK, 517-18: mucus; RAYCHAUDHURI & MAJUMDAR, 639: mucus tissues; GARRAULT, 270: development; GOETSCH, 288: GOETSCH & SCHINDLER, 290: differentiation of sex and ovo-spermatogenesis; RODOLICO, 654: relation between hypophysis and sexual organs; CARDOSO, 125: hypophysis and ovulation; PEREIRA & CARDOSO, 600: induced

maturation in sex organs; BOUCHER & FONTAINE, 80: eggs; BUŞNIŢĂ & GAVRILESCU, 119: GHINST, 275: SCHMIDT-NIELSEN, AAS, ÅSTAD & LEONARSEN, 687: WINTREBERT, 844: osmotic pressure in embryonal capsules; LEINER, 461: metamorphosis; HORTON, 396: parthenogenesis; MONTALENTI, 533: hybridization; KOSSWIG, 439: colour; GIERSBERG, 279: GRAPNER, 304: KOLLER, 434: SØRENSEN, 728: colour change; KREIBICH, 441: PARKER, 578, 580-582: SAPHIR, 673: chromatophores, BEAUVALLET & VEIL, 33: erythrophores; SMITH, 722: STUTINSKY, 752: carotenoids; LÖNNBERG, 485: melanophores; BEAUVALLET, 32: BÖTTGER, 77: PARKER, 579: PARKER & PORTER, 583: pseudo-melanosis; NIGRELLI, 559: melanophores in healing wounds; SMITH, 723: melanism in skeleton; HARPER, 335.

ETHOLOGY.

General; AQUAR., 16: SALMON, 668. Bionomics of: Aquarium fishes; HOLLY, MEINKEN & RACHOW, 773: LADIGES, 451: Atlantic Synentognathi; BREDER, 91: Black Sea fishes; SYROVATSKIJ, 762: fishes of Lake Balaton; LISSMANN, 478: fishes of India; HORA, 377: Siluroid fishes of India, Ceylon and Burma; HORA, 376: of food fishes of Punjab; HAMID KHAN, 328: fishes of Siam; SMITH, 724: fishes in hot springs; STROUHAL, 746: *Lampetra*; USSING, 800: *Acipenser*; ANTIPA, 13: BRUNELLI, 106: ROULE, 660: *Clupea harengus*; HODGSON, 367: *Salmo fario*; CALDERWOOD, 122: *Christivomer namaycush*; WEED, 826: *Salvelinus fontinalis* and *S. alpinus*; WEED, 826: *Coregonus*; WAGLER, 819: KROGIUS, 442: FRIEDENFELT, 259: *C. wartmanni*; ELSTER, 219: *Idiacanthus*; BEEBE, 35: *Harpodon nehereus*; HORA, 383: *Gymnorhamphichthys hypostomus*; COATES, 162: *Sternarchus albifrons*; COATES, 162: *Myxocyprinus asiaticus*; FANG, 228: *Carassius auratus*; SCHREITMÜLLER, 698: *Pimephales promelas*; MARKUS, 512: *Glyptosternum reticulatum*; HORA, 382: *Anguilla*; HORNOLD, 388: *Pisodonophis boro*; HORA, 381: *Profundulus punctatus*; LADEWIG, 450: *Cyprinodon macularius*; COWLES, 170: *Mullus barbatus*; ESSPOV, 222: *Geophagus brasiliensis*; GUIMARÃES,

320: *Thunnus thynnus*; RUSSELL, 664: *Germo alalunga*; LEGENDRE, 459: *Pseudapocryptes lanceolatus*; DAS, 180: *Helostoma temminckii*; COATES, 163: *Neoplatycephalus macrodon*; COLEFAX, 165: Heterosomata; NORMAN, 563: acclimatisation; CHIAPPI, 156: GRANT, 302: HARRISON, 336: TOUMANOFF, 792: respiration; DAS, 180: air-breathing fishes; HARMS, 334: colouration; GORDON, 296: colour change; FOSI, 244: pigmentation; KOLLER, 434: protective colouration; SUMNER, 754: parasitism; DOGIEL & PETRUCHEWSKY, 204: FIRTH, 233: HOLL, 369: "cannibalism"; BRESSE, 120: symbiosis; GUDGER, 313, 314: commensalism; GOHAR, 291: meteorological conditions and death of fishes; HAYASAKA, 341: sound production; HARDENBERG, 333: group behaviour; WELTY, 832: fecundity; TUZET & HARANT, 797: hybridization; BEL-LAMY, 40: vivipary; BREIDER, 96: parthenogenesis; KASANSKY, 421: poison; SAP, 672: poisonous fishes; PHISALIX & HOUEMER, 603: nutrition (embryonic); KRYZANOVSKY, 443: rains of fishes; HORA, 379: SEN, 709.

Breeding habits.—BEEBE, 35: BREIDER, 86, 88: BRESSE, 98: CALDERWOOD, 122: COWLES, 170: CROKER, 171: DANNEVIG, 178: DEVINCENZI, 193: DULZETTO, 207: FOSI, 244: GLIESCH, 286: GOODRICH & TAYLOR, 294: HO, 365: HOBBS, 366: LIEBMAN, 467: MARKUS, 512: NOBLE, 562: RANZI, 635: SCHREITMÜLLER, 696, 697: SCHNAKENBECK, 689.

Migrations.—BOWMAN, 84: CALDERWOOD, 121, 122: CHIAPPI, 155: GARDINER, 269: HORA, 383: JÄRVI, 413: MOTTLEY, 536: TÄNING, 766.

Distribution. — ATHANASSOPOULOS, 18: BERG, 46: BRUNELLI & BINI, 107; CHEVEY, 154: EKMAN, 217: FORREST, 243: WITTMANN, 845: ZENKEWITSCH, 861.

Ecology.—BREDER, 89: CHEN, 148: HERRE, 353: PEARSE, 591: SHURRAGER, 716: UENO, 798.

Pathology.—BROWN, 105: FISH, 235: FLORENTIN, 237: HADDOW & BLAKE, 325: KLEMM, 431: LADREY, 452: NIGRELLI, 557: TORRES & PACHECO, 788: VIRÉ, 810: WELLS & ZOBELL, 831: ZERNOFF, 862.

Food.—CLEMENS, 161; COATES, 164; DYK, 211; HORA, 383; LEBOUR, 456; LEGENDRE, 459; McKEOWN, 501-503; MENSHIKOV & BUKIREV, 527; NIGRELLI, 558; O'DONOGHUE & BOYD, 567; OGILVIE, 568; SLACK, 718; SPIRA, 731; SUYEHRO, 758; SVETOVIDOV, 759; VALIANI, 802.

Growth.—MOHR, 530; PARROTT, 586; PRICE, 620; SCHULTZ, 699; SMITH, 725; SUJETOW, 753; VOS, 818; WASNETZOFF, 823.

Biometrics.—FEDEROV, 232; WASNETZOFF, 823.

Genetics.—BELLAMY, 39; CHEN, 145, 147; FRIEDMAN & GORDON, 260, 261; GOODRICH & MERCER, 293; GOODRICH, DEE, FLYNN & MERCER, 295; GORDON, 297; KERRIGAN, 424; MATSUI, 519, 520; PROKOFEVA, 626; RALSTON, 634; ZAHL, 857.

VARIATION AND EVOLUTION.

Evolution.—General; ABBIE, 1; CHABANAUD, 130; KERR, 423a; KOH, 432; MASCHKOWZEFF, 514-16; SÄVE-SÖDERBERGH, 677; SEWERTZOFF, 712; THOMPSON, 783; of Heterosomata; NORMAN, 563; of tetrapod limb; HOLMGREN, 374; blind fishes; BAILEY, 24; mass-deaths; ZELIZKO, 860; hermaphroditism; BREDER, 97; KINOSHITA, 429; hybridization; HORA, 377; KOSSWIG, 439; LEINER, 462, 463; LÖNNBERG, 486; NORMAN, 563; PIETSCHEMANN, 605; MALLETT & NICHOLS, 508; secondary sexual characters; BREDER, 90; secondary sexual characters; SSAMOKHVALOVA, 733; WUNDER, 854.

Variation.—General; BERTIN, 52; CHAMBERS, 140; HART, 337; NIKOLSKI, 560; RUTENBERG, 666; SVETOVIDOV, 761; VLADYKOV, 811, 812; WORTHINGTON, 852; teratology; BOSINCEANO, 76; BOURNE, 81; BREDER, 87; EKMAN, 216; GOETSCH & SCHINDLER, 289; GUDGER, 315; LACKEY, 448; MARKUN, 511; MEYER, 529; REMOTTI, 642; SHAW, 714; TCHANG, 775; sexual dimorphism in *Idiacanthus*; BEEBE, 35; in Heterosomata; NORMAN, 563; races; BERG, 44; BUEN, 116; HUBBS, 402; LISSNER, 479; TESCH, 782; albinism; NORMAN, 563; SCHREITMÜLLER, 694; melanism; SCHREITMÜLLER, 695; ambicoloration and reversal; GUDGER, 316; NORMAN, 563.

DISTRIBUTION.

General.—Of Heterosomata; NORMAN, 563; of *Stomias*; EGE, 213.

(a) MARINE.

Arctic Zone.—JESSIPOW, 415; Novaya Zemlya; Yessipow, 856.

Subarctic and North Temperate.—N. Atlantic; BERTIN, 51; FAUNE, 231; LEGENDRE, 459; PARR, 585; British Isles; TATTERSALL, 773; Norway; DONS, 205; Baltic; MEYER, 528; France; BAUDOUIN, 29; DESBROSSES, 191; HATTON & LAMI, 339; LEGENDRE, 458; PELLEGRIN, 593; Spain; BUEN, 115; Mediterranean, ANCONA, 11, 12; ATHANASSOPOULOS, 19; BORODIN, 72; DESPOTT, 192; PAGE, 225; FAUNE, 230; LIEBMAN, 468; LOZANO, 491; NINNI, 561; VINCIGUERRA, 808; MOROCO; CHABANAUD, 138; Tunis; HELDT, 346; Madeira; BORODIN, 72; Sea of Marmora; WOLTERECK & NEU, 848; Black Sea; BORCEA, 69, 70; NEKRASSOFF, 551; SLASTENENKO, 720, 721; China; FANG, 227; Korea; MORI & UCHIDA, 540; Japan; KAMOHARA, 417; KATAYAMA, 423; OSHIMA, 574; —, 868; Sea of Japan; SCHMIDT & TARANEC, 686; TARANEC, 770; Okhotsk Sea; TARANEC, 771; Alaska; CHAPMAN & DELACY, 143; HUBBS & SCHULTZ, 406; ROUNSEFELL & DAHLGREN, 662; SCHULTZ, 770, 701; SCHULTZ & WELANDER, 703; America (Pacific); HUBBS & SCHULTZ, 405; SCHULTZ & CHAPMAN, 702; Canada (Atlantic); BIGELOW & SCHROEDER, 59; PREFONTAINE, 619; WILBY, 839; U.S.A. (Atlantic); BREDER & NIGRELLI, 95; HILDEBRAND, 360; FOWLER, 245, 248.

Tropical.—W. Africa; PELLEGRIN, 592; Suez Canal; CHABANAUD, 134; Red Sea; TORTONESE, 790; G. of Aden; DELSMAN, 184; E. Africa; COPLEY, 166; Zanzibar; CHABANAUD, 132; VON BONDE, 816; Madagascar; PETIT, 601; Natal; FOWLER, 245, 249, 254; SMITH, 726; SMITH, 727; Mauritius; BORODIN, 75; Ceylon; DERANIYAGALA, 185; FOWLER, 246; SMITH, 724; Dutch East Indies, FOWLER, 245-6; TROP., 794; Sumatra; AHL, 1c; HARDENBERG, 331; New Guinea; WHITLEY, 836; Indo-Austral. Archipelago; HARDENBERG, 329, 330, 332; Queensland; FRASER-BRUNNER,

256: Australia; WHITLEY, 834, 836, 837: Philippines; FOWLER, 245: HERRE, 351: MONTILLA, 534: China; CHEUNG, 152: FANG, 227: FOWLER, 245, 250-3: HERRE, 350: IAKOVLEFF, 408, 412: KOO, 435: LIN, 475: SHAW, 713: WANG, 821, 822: China; WU & WANG, 853: Japan; FOWLER, 245: Hawaii; PIETSCHMANN, 607: Panama; HILDEBRAND, 361: West Indies; LONGLEY, 483: MYERS, 548: REID, 641a: Cuba; RIVERO, 648-651: Caribbean Sea; PARR, 584: Florida; BORODIN, 72: LONGLEY, 484: America (Atlantic); FOWLER, 248: West Atlantic; FOWLER, 245: Bermudas; BEEBE, 35-36: BEEBE & TEE-VAN, 37: BORODIN, 72.

South Temperate.—S.W. Africa, NICHOLS, 554: S. Africa; BARNARD, 25, 26: SMITH, 726, 727: Australia; BERTIN, 55: MACK, 497, 498: WHITBY, 835-837: Tasmania; SCOTT, 706: N. Zealand; GRIFFIN, 308: Ecuador; CAMPOS, 123: Argentina; HUBBS, 400: MACDONAGH, 494: Brazil; IHERING, 409, 410.

Antarctic.—S. Georgia; HUBBS, 400.

(b) FRESHWATER.

Palaeoarctic.—British Isles; COWARD, 169: Holland; REDEKE, 640: France; PARIS, 576: Germany; HASE, 338: KRAMER, 440: LEHMANN, 460: Finland; REUTER, 645: Albania; VINCI-GUERRA, 809: Eastern Europe; BORCEA, 67: Balkans; ATHANASSOPOULOS, 18: Roumania; BORCEA, 68: Bulgaria; CHICHKOFF, 157-159: DRENSKY 206: Greece; ATHANASSOPOULOS & PELLEGRIN, 20: Mediterranean; GERMAIN, 272: Algeria; DIEUZEIDE, 200: Asia Minor; PIETSCHMANN, 610: U.S.S.R.; BERG, 43: KASHAROV, 422: MENSHIKOV & BUKIREV, 527: NIKOLSKII, 560: SLASTENENKO, 719: BULGAKOV, 117: TABANEC, 768-9: Mongolia; KIMURA, 428: Manchoukuo; MORI, 538, 539: China; BERG, 45: FANG, 226: FU, 264: IAKOVLEFF, 408, 412: KIMURA, 427: TCHANG, 777, 778: TCHANG & SHIH, 780: Korea; MORI & UCHIDA, 540: Japan; LINDBERG, 476.

Nearctic.—Canada; TONER, 786: TONER & STEVENSON, 787: U.S.A., HUBBS & SCHULTZ, 404: MACKAY, 499: TANNER & HAYES, 767.

Indian.—Madagascar; PELLEGRIN, 596: India; CAPORIACCO, 124: HORA, 376, 377, 378, 382: HORA & MUKERJI, 384: MUKERJI, 544: Ceylon; HORA, 376: Burma; HORA, 376: HORA & MUKERJI, 384, 385: MUKERJI, 544: Siam; FOWLER, 246, 247: SMITH, 724: Annam; CHEVEY, 153: Tonkin; PELLEGRIN, 594: PELLEGRIN & CHEVEY, 599: East Indies; FOWLER, 246: Malay Peninsula and Borneo; BEAUFORT, 30: Sumatra; MOHR, 531: Indo-Austral. Arch.; HARDENBERG, 332: Formosa; MYERS, 546: Philippines; HERRE, 351: HERRE & ABLAN, 354: China; CHEN, 146: FANG, 226: HERRE, 348-350, 352, 355: IAKOVLEFF, 408, 412: LIN, 470-475: SHAW, 715: TCHANG, 777: TCHANG & SHIH, 780, 781.

Oceana.—Hawaii, PIETSCHMANN, 606.

Ethiopian.—Africa; FOWLER, 249, 254: NICHOLS & LA MONTE, 555: PELLEGRIN, 598: Sahara; PELLEGRIN, 597: Equatorial Africa; CHABANAUD, 136: Abyssinia; GASTRO & VINCI-GUERRA, 273, 274: Transvaal; VAN DER HORST, 803.

Neotropical.—Panama; BORODIN, 74: W. Indies; BREDER, 92: Cuba; HUBBS, 401: Trinidad; GUPPY, 324: S. America; AHL, 2, 4: S. America; NORMAN, 564: Brazil; AHL, 3: DEVINCENZI, 195: MAGALHÃES, 506: Peru; MYERS, 546: Uruguay; DEVINCENZI, 194: Argentina; MACDONAGH, 494, 495.

Australian.—New Guinea; NICHOLS & RAVEN, 556: Tasmania; SCOTT, 706.

(c) FOSSIL.

General.—Fishes of Indiana, U.S.A., MOODIE, 533a.

Conodonts and petroleum; GUNNELL, 323: Palaeozoic; SCHMIDT, 685: Silurian; BROTZEN, 100: KIAER, 425: Devonian; BROILL, 99: BROTZEN, 100, 101: BRYANT, 110: GORIZZIO-KULCZYCKA, 298: GROSS, 309-311: HEINTZ, 343, 344: OBRUCHEV, 565: OBRUTSCHEW, 566: SÄVE-SÖDERBERGH, 675, 676: SCHMIDT, 684: SCHUSTER, 704: STENSIÖ, 739: WATSON, 824, 825: WOODWARD, 850, 851: Carboniferous; HIBBARD, 359: MOY-THOMAS, 541:

SIMPSON, 717: SUSTA, 757: Permo-Carboniferous; WOODWARD, 850: Permian; BRANSON, 85: BROUGH, 104: HEINTZ, 345: WOODWARD, 850: Triassic; BROUGH, 103: BRYANT, 111: CORROY, 167: HAUGHTON, 340: MOY-THOMAS & WHITE, 543: PIVETEAU, 614: SCHNETZER, 691: Mesozoic; HOWCHIN, 397: Jurassic; WHITE, 833: Cretaceous; OLIVEIRA, 569: PINTO, 611: THORPE, 784: Tertiary; BEAUFORT, 31: CUVILLIER & JOLEAUD, 172: ERASMO, 220: GILBERT, 280: HOWCHIN, 397: LADD, 449: LERICHE, 466: PITON, 612: SANDERS, 669: VENZO, 805: Eocene; CHAPMAN, 141: FROST, 263: VOIGT, 814: WEITZEL, 829: Oligocene; CHABANAUD, 137: HILLS, 363: PAUCI, 589: PITON, 613: RUSSELL, 635: SERGIO, 710: WEILER, 827: Miocene; GOLDBACHOVÁ, 292: LIPPARINI, 477: TOLMACHOFF, 785: WEITZEL, 830: Pliocene; PIETSCHMANN, 609: TCHANG, 776: Pleistocene; BERRY, 49: Pliocene; BIEN, 58: Quaternary; KLEBELSBERG, 430.

III.—SYSTEMATIC.

GENERAL WORKS.

Taxonomic methods, TANAKA, 765; fishes of Yangtze-kiang, KIMURA, 427; freshwater fishes of Pai-Chuan, Ho-nan, FU, 264; freshwater fishes of Jehol, MORI, 539; catalogue of specimens in Museum at Elbeuf, COULON, 168.

MARSIPOBRANCHII.

†HETEROSTRACI.

†*Acantholepis coronata* sp. n. Devonian Baltic Provinces, BROTZEN Z. Geschiebeforsch. Berlin 10 p. 45 pl. iii fig. 11a-b.

†*Coelolepis findata* p. 5 pl. i fig. 1a-c, *sulcata* p. 5 pl. i fig. 2a-c, *muelleri* p. 6 fig. 4a-c, *dentata* p. 7 pl. i fig. 5a-c, *solida* p. 8 pl. i fig. 6a-c, *navicularis* p. 9 pl. i fig. 7a-c, *simplex* p. 9 pl. i fig. 9a-c, *trissulcata* p. 10 pl. i fig. 10a-b, *acuta* p. 11 pl. i fig. 8a-d spp. n. Devonian Baltic Provinces, BROTZEN t.c.; *C. lukai* sp. n. Silurian Esthonia, KIAER Arch. Naturk. Estlands 10 1932 p. 173 pl. iii figs. 1-3.

†*Corvaspis* gen. n. p. 566, *kingi* sp. n. Devonian England p. 567 pl. xix, WOODWARD Quart. J. Geol. Soc. 90.

†*Gomphodus longiformis* p. 33 pl. ii fig. 10 a-b, *magnisquamosus* p. 34 pl. ii fig. 19 a-b, *rhomboidalis* p. 34 pl. ii fig. 16 a-b, *ornatus* p. 34 pl. ii fig. 13 a-b, *pulviniformis* p. 35 pl. ii fig. 4a-b, *alatus* p. 35 pl. ii fig. 11a-c, *irregularis* p. 36 pl. ii fig. 18a-b, *compressus* p. 36 pl. ii fig. 14a-b spp. n. Devonian Baltic Provinces, BROTZEN t.c.

†*Karelosteus* gen. n., *weberi* sp. n. Devonian U.S.S.R., OBRUCHEV Mater. Centr. Sci. Geol. & Prosp. Inst. Palaeont. Stratigr. 1 1933 p. 12 pl. i fig. 1.

†*Lophaspis* gen. n., *crenulata* sp. n. Devonian Baltic Provinces, BROTZEN t.c. p. 16 text-fig. 2.

†*Lophosteus mutabilis* sp. n. Devonian Baltic Provinces, BROTZEN t.c. p. 50 text-figs. 5-6.

†*Orthaspis* gen. n., *plana* sp. n. Devonian Baltic Provinces, BROTZEN t.c. p. 13 text-fig. 1.

†*Palaeospis simplex* p. 432 pl. xxiv fig. 3, *pompeckji* p. 433 pl. xxiv figs. 1, 2, 4 and text-fig. 2 spp. n. Devonian Poland, BROTZEN Palaeobiol. Wien 5 1933.

†*Pteraspis concinna* p. 453 fig. 14, *magnipinealis* p. 454 figs. 14-15, spp. n. *lerichei plana* p. 447 fig. 10 var. n., Devonian, *zychi* p. 448 fig. 11, *iwaniensis* p. 450 fig. 12 spp. n. Silurian Poland, BROTZEN t.c.

CYCLOSTOMATA.

General, PIETSCHMANN, 608.

SELACHII.

†ICHTHYORODULITES.

†*Dolophonodus* = *Arctacanthus*,
WOODWARD Ann. Mag. Nat. Hist. 13
p. 526.

†*Helenacanthus* gen. n., *incurvus*
sp. n. Devonian U.S.A., BRYANT Proc.
Amer. Phil. Soc. Philad. 73 p. 150 pl. xix
fig. 1.

†*Machaeracanthus minor* sp. n.
Devonian U.S.A., BRYANT t.c. p. 148 pl.
xviii fig. 1.

†*Onchus peracutus* sp. n. Devonian
U.S.A., BRYANT t.c. p. 149 pl. xviii
fig. 3.

†*Pinnacanthus* gen. n., *inequistriatus*
sp. n. Devonian U.S.A., BRYANT t.c.
p. 149 pl. xviii fig. 2.

†ACANTHODII.

†*Acanthodes devonicus* p. 37 pl. ii
fig. 12a-b, *laevigatus* p. 37 pl. ii fig.
9a-c spp. n. Devonian Baltic
Provinces, BROTZEN Z. Geschiebeforsch.
Berlin 10.

†*Acanthoides* gen. n., *inornatus* p. 38
pl. iii figs. 3 a-c, 9 a-b, *incurvus* p. 39
pl. iii fig. 12 a-b, *exsculptus* p. 39 pl. iii
fig. 10 a-b, *undulatus* p. 40 pl. ii figs.
5 a-c spp. n. Devonian Baltic
Provinces, BROTZEN t.c.

†*Belacanthus* gen. n., *typicus* p. 41
pl. iii figs. 6 a-b, 7a-b, *carinatus* p. 42
pl. ii fig. 8 a-b spp. n. Devonian Baltic
Provinces, BROTZEN t.c.

†*Cheiracanthus voighti* sp. n. Devonian
Baltic Provinces, BROTZEN t.c. p. 40
pl. iii fig. 15 a-b.

†*Conolepis* gen. n. p. 30, *conulus* p. 31
pl. i fig. 17 a-b, *multicornis* p. 31 pl. ii
fig. 15 a-b spp. n. Devonian Baltic
Provinces, BROTZEN t.c.

†*Diplacanthoides* gen. n., *balticus*,
p. 23 pl. i fig. 15 a-c, *rugosus* p. 24 pl. i
fig. 14 a-b, *furcatus* p. 24 pl. i fig.
13a-b, *insignis* p. 25 pl. ii fig. 1a-b,
elegans p. 26 pl. i fig. 11a-c, *crassus*
p. 26 pl. i fig. 16a-b, *bisulcatus* p. 27
pl. ii fig. 7a-b, *globosus* p. 28 pl. i fig.
12a-c, *hoppei* p. 28 pl. ii fig. 2a-b,
huckei p. 29 pl. iii fig. 18a-b, *robustus*
p. 30 pl. ii fig. 6a-b spp. n. Devonian
Baltic Provinces, BROTZEN t.c.

†*Gyracanthus convexus* figd., SCHMIDT
684.

†*Machaeracanthus bohemicus*, *kayseri*
figd., SCHMIDT 684.

†*Poracanthodes* gen. n., *punctatus*
p. 43 pl. iii figs. 1a-b, 8a-b, *porosus*
p. 44 pl. iii fig. 2a-b, *asper* p. 44 pl. iii
fig. 4a-c, *erraticus* p. 44 pl. iii fig. 5a-c,
spp. n. Devonian Baltic Provinces,
BROTZEN t.c.

EUSELACHII.

PLEUROTREMATA.

List of Australian Sharks, WHITLEY
834.

HEXANCHIDAE.

†*Notidanus primigenius* figd., WEILER
827.

Notorynchus cepedianus, WHITLEY
834.

LAMNIDAE.

Halsydrus (= *Cetorhinus*) synonymy,
WHITLEY 834.

Isuropsis mako, WHITLEY 834.

†*Isurus desori* cf. *benedeni* figd.,
WEILER 827.

†*Lamna rupeliensis*, *cattica* figd.,
WEILER 827.

ORECTOLOBIDAE.

Brachaelurus waddi, WHITLEY 834.

Nebrodes concolor ogilbyi subsp. n.
Queensland, WHITLEY Mem. Qd. Mus.
10 p. 183 fig. 1.

SCYLIORHINIDAE.

Aulohalaelurus subgen. n. (of *Hala-*
elurus) type *Catulus labiosus*, FOWLER
Proc. Acad. N.S. Philad. 85 p. 237;
A. labiosus, WHITLEY 836.

Conoporoaderma subgen. n. (of *Poro-*
derma) type *Scyllium pantherinum*,
FOWLER t.c. p. 234.

Halaelurus garmani sp. n. E. Indies,
FOWLER t.c. p. 235 fig. 1.

Holohalaelurus subgen. n. (of *Halae-*
lurus) type *Scyliorhinus regani*, FOW-
LER t.c. p. 235.

Parapristiurus subgen. n. (of *Pen-*
tanchus) type *Catulus spongiceps*, FOW-
LER t.c. p. 237.

Pentanchus verweyi Borneo p. 237
fig. 2, *herklotsi* Jolo Sea p. 238 fig. 3
spp. n., FOWLER t.c.

Poroderma marleyi sp. n. Natal,
FOWLER t.c. p. 234.

CARCHARINIDAE.

Aprionodon sitankaiensis sp. n.
Philippines, HERRE Fish. Herre Philipp.
Exped. 1931 (1934) p. 11.

Carcharinus nomenclature, WHITLEY
Mem. Qd. Mus. 10 p. 184.

†*Carcharodon angustidens* et var.
turgidus figd., WEILER 827.

Galeolamnoides gen. n. type *Carcharias*
macrurus, *G. stevensi* notes, WHITLEY
t.c. p. 191.

Gillisqualus gen. n., *amblyrhynchoides*
sp. n. Queensland, WHITLEY t.c. p. 189
fig. 4.

Mapolamia gen. n. type *Carcharias*
melanopterus, WHITLEY t.c. p. 188.

Scoliodon jordani, WHITLEY t.c. p. 186
figs. 2, 3.

Sphyrna lewini, WHITLEY t.c. p. 192
pl. xxviii.

†HYBODONTIDAE.

†*Carinacanthus* gen. n., *jepseni* sp. n.
Triassic U.S.A., BRYANT Proc. Amer.
Phil. Soc. Philad. 73 p. 320 pls. i-iv.

HETERODONTIDAE.

†*Cestracion elongatus* figd., WEILER
827.

Heterodontus portusjacksoni synony-
my, WHITLEY 834.

Molochophrys galeatus fig., WHITLEY
834.

Wuia subgen. n. (of *Heterodontus*)
type *Centracion zebra*, FOWLER Proc.
Acad. N.S. Philad. 85 p. 233.

SQUALIDAE.

Heteroscymnoides gen. n., *marleyi*
sp. n. Natal, FOWLER Proc. Acad. N.S.
Philad. 85 p. 239 fig. 4.

Proscymnodon subgen. n. (of *Scymno-*
don) type *Centrophorus plunketi*, FOWLER
t.c. p. 239.

Squalus megalops fig., WHITLEY 834.

HYPOTREMATA.

RHINOBATIDAE.

Rhynchobatus yentiniensis sp. n. China,
WANG Contr. Biol. Lab. Sci. Soc. China
Zool. 9 1933 p. 98 fig. 4.

RAIIDAE.

Raja atriventralis sp. n. Japan?,
FOWLER Proc. Acad. N.S. Philad. 85
p. 241 fig. 5.

TRYGONIDAE.

Gymnura crooki sp. n. China, FOWLER
Proc. Acad. N.S. Philad. 85 p. 242 fig. 6.

HOLOCEPHALI.

†*Ptyctodus czarnockii* p. 3 pl. i figs. 1-
6, pl. ii figs. 1-3 pl. iii figs. 1-4 text-figs.
1-4, *kielcensis* p. 11 pl. ii fig. 5 spp. n.,
obliquus figd. p. 10 pl. ii fig. 4 pl. iii
fig. 5 Devonian Poland, GORIZDRO-
KULCZYCKA Trav. Serv. geol. Pologne 3.

†*Rhynchodus marginalis* sp. n. De-
vonian Poland, GORIZDRO-KULCZYCKA
p. 12 pl. ii figs. 7-8 pl. iii fig. 6.

†PLACODERMI.

†*Taunaspis* gen. n. p. 233, *eurystethes*
sp. n. Devonian Germany, SCHMIDT
Palaeont. Z. Berlin 15 1933 p. 234 fig. 3.

†ARTHRODIRA.

Structure, WATSON 824.

†Homostiidae anatomy, systematic
position, revision etc., HEINTZ Pub.
Geol. Inst. Tartu 38 1933.

†*Anarthraspis* gen. n. (for *Coccosteus*
chamberlini and *Svalbardaspis montanus*),
BRYANT Proc. Amer. Phil. Soc. Philad.
73 p. 142.

†*Angarichthys* systematic position,
HEINTZ t.c. p. 77.

†*Coccosteus mironovi* sp. n. Devonian
U.S.S.R., OBRUCHEV Mater. Centr. Sci.
Geol. Prosp. Inst. Palaeont. Stratigr.
1 1933 p. 12 pl. i figs. 4-5; *C. terrae-*
novae sp. n. Devonian Novaja Zemlya,
OBRUTSCHEW Trans. Arctic Inst. Lenin-
grad 13 p. 185 figs. 1-2.

†*Euryaspis obscurus* p. 140, pl. ix fig. 1, text-fig. 3, *cristatus* p. 141 pl. xii figs. 1-3, text-fig. 4 spp. n. Devonian U.S.A., BRYANT t.c.

†*Greenlandaspis mirabilis* figd., STENSIÖ 738.

†*Heintzaspis* gen. n. (= *Acanthaspis* Newb. 1875), STRAND *Folia Zool. Hydrobiol.* Riga 4 1932 p. 196.

†*Homostius arcticus* sp. n. Devonian Spitzbergen p. 86 pl. ix fig. 1 text-figs., *H. sulcatus* p. 88, *formosissimus* p. 91, *latus* p. 92, *milleri* p. 96, described, HEINTZ t.c.

†*Macropetalichthys pruemiensis* figd., BROILI 99.

†*Phlyctaenaspis acadica* figd., HEINTZ 344.

†*Phyllolepis söderberghi* sp. n. Devonian Greenland, *P. orvini* figd., STENSIÖ *Medd. Grønland* 97 p. 36 pls. ix-xi text-figs. 14-15.

†*Rhamphodontus eximius* figd., WATSON 824.

†*Rhamphodopsis* gen. n., *threiplandi* sp. n. Devonian Scotland, WATSON *Proc. Zool. Soc.* 1934 p. 457 pl. i text-fig. 8.

†ANTIARCHA.

†*Asterolepis cristata* sp. n. Devonian U.S.S.R., OBRUCHEV *Mater. Centr. Sci. Geol. Prosp. Inst. Palaeont. Stratigr.* 1 1933 p. 12 pl. i figs. 2-3.

PISCES.

Synopsis of Chinese spp., FOWLER 250.

PALAEOPTERYGII.

†ARCHISTIA.

†PALAEONISCIDAE.

†*Coccolepis cockerelli* sp. n. Jurassic Turkestan, WHITE *Ann. Mag. Nat. Hist.* 14 p. 396 fig. 1.

†*Tarrasius problematicus* figd., MOY-THOMAS 541.

†DORYPTERIDAE.

†*Lekanichthys* gen. n., *howsei* sp. n. Permian England, BROUGH *Ann. Mag. Nat. Hist.* 14 p. 354 pl. viii text-fig. 1.

†CATOPTERIDAE.

†*Atopocephala* gen. n., *watsoni* sp. n. Triassic S. Africa, BROUGH *Proc. Zool. Soc.* 1934 p. 564 pl. i figs. 2-3 text-figs. 2-3.

†*Daedalichthys higginsii* figd., BROUGH 103.

†*Ischnolepis* gen. n., *bancrofti* sp. n. Triassic S. Africa, HAUGHTON *Ann. S. Afr. Mus.* 31 p. 97 pl. xxix text-figs. 1-2.

CHONDROSTEI.

ACIPENSERIDAE.

Acipenser güldenstedtii persicus, BERG 47.

NEOPTERYGII.

Bathysidus gen. n., *pentagrammus* sp. n. Bermuda, BEEBE *Bull. N.Y. Zool. Soc.* 37 p. 192 fig.

ISOSPONDYLI.

CLUPEIDAE.

Notes on Black Sea spp., BORCEA 70.

Alosa bulgarica sp. n. Bulgaria, DRENSKY *Bull. Inst. Roy. Hist. nat. Sofia* 7 p. 85 figs. 1-2; †*A. sagorensis* figd., WEILER 827.

Anchoviella indica, FOWLER 254 p. 404 fig. 1.

Cetengraulis gilberti = *C. garmani* = *C. edentulus*, LONGLEY 483.

Clupea (*Harengula*) *dispilonotus*, HARDENBERG. 329; †*C. longimana*, *arcuata* figd., WEILER 827; †*C. stauropolitana* sp. n. Tertiary Caucasus, BOGAČEV (see Weiler, N. Jahbr. Min. Geol. Paläont. Stuttgart Ref. III (5) p. 822).

Clupeoides bornuensis, HARDENBERG 329.

Clupeonella muhlisi sp. n. Sea of Marmora, WOLTERECK & NEU *Int. Rev. Hydrobiol.* 30 p. 446 figs. 1-4.

Coilia coomansi sp. n. Borneo, HARDENBERG *Treubia* 14 p. 294; *C. macrognathus*, HARDENBERG 329.

Engraulis encrasicholus, LEGENDRE 459.

Etrumeus albulina sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 244 fig. 7.

Euplatygaster subgen. n. (of *Ilisha*) type *Pellona brachysoma*, FOWLER t.c. p. 246.

Herklotsella subgen. n. (of *Harengula*) type *Harengula dispilonotus*, FOWLER t.c. p. 246.

Montalbania subgen. n. (of *Etrumeus*) type *Etrumeus albulina*, FOWLER t.c. p. 244.

Pellona kampeni, HARDENBERG 329.

Sardinella eba, *maderensis*, *aurita*, CHABANAUD 129.

Spratelloides gracilis, *delicatus*, HARDENBERG 329.

Stolephorus key to Indo-Austral spp. p. 317; *S. baganensis macrops* p. 339, *insularis bataviensis* p. 346, *insularis baweanensis* p. 348, *insularis oceanicus* p. 350, *indicus narvus* p. 355 subspp. n. Indo-Austral. Arch.; *S. tri*, *baganensis*, *insularis indicus*, *commersonii*, *heterolobus*, *pseudoheterolobus*, *zollingeri*, *celebicus* figured; HARDENBERG Treubia 14.

Tenmalosa subgen. n. (of *Hilsa*) type *Alosa reevesii*, FOWLER t.c. p. 246.

CHIROCENTRIDAE.

†*Portheus dunedinensis* sp. n. Eocene New Zealand, CHAPMAN Trans. Proc. Roy. Soc. N.Z. 64 p. 117 pl. xii fig. 1; *P. molossus* figd., THORPE 784.

ALEPOCEPHALIDAE.

Alcockella subgen. n. (of *Narcetes*) type *Narcetes garmani*, FOWLER Proc. Acad. N.S. Philad. 85 p. 255.

Alepocephalus andersoni sp. n. Philippines, FOWLER t.c. p. 246 fig. 8.

Asquamiceps longmani sp. n. Celebes, FOWLER t.c. p. 248 fig. 9.

Bathypnopteron subgen. n. (of *Rouleina*) type *Aleposomus nudus*, FOWLER t.c. p. 256.

Bathytroctes welshi, *hataii* Philippines p. 249 figs. 10–11, *harperi*, *zugmayeri* Celebes p. 250 figs. 12–13, *innesi* W. Atlantic p. 252 fig. 14, FOWLER t.c.

Halsauriceps gen. n. type *Alepocephalus longiceps*, FOWLER t.c. p. 247.

Megalepocephalus subgen. n. (of *Asquamiceps*) type *Asquamiceps longmani*, FOWLER t.c. p. 248.

Narcetes pappenheimi Celebes p. 253 fig. 15, *lloydi* Philippines p. 254 fig. 16, *garmani* China Sea p. 255 fig. 17 spp. n., FOWLER t.c.

Whitleyidea subgen. n. (of *Alepocephalus*) type *Alepocephalus niger*, FOWLER t.c. p. 247.

SALMONIDAE.

Hucho bleekeri sp. n. Yangtze-kiang, KIMURA J. Shanghai Sci. Inst. (III) 1 p. 23 pl. i fig. 1.

†*Thaumaturus intermedius* sp. n. Eocene Germany, WEITZEL Notizbl. Ver. Erdk. Darmstadt 5 1933 p. 93 pl. viii figs. 4–8; *T. spannuthi* sp. n. Eocene Germany, VOIGT Nova Acta Leop. Halle N.F. 2 p. 43 pl. i, figs. 1–3 pl. ii, figs. 1–9 pl. iv, figs. 3–4 pl. vii, figs. 5–7 pl. viii, figs. 1–4, 13–14, 17, 24–25 pl. ix, figs. 1, 4–5, pl. x, figs. 1–7 pl. xi, figs. 1–2 pl. xii, figs. 1–4 pl. xiii, figs. 2, 6–9 pl. xiv, fig. 1 text-figs. 11–14.

MICROSTOMIDAE.

Euproserpa subgen. n. (of *Microstoma*) type *Microstoma schmitti*, FOWLER Proc. Acad. N.S. Philad. 85 p. 256.

Microstoma schmitti sp. n. Philippines, FOWLER t.c. p. 256 fig. 18.

OSMERIDAE.

Osmerus eperlanus notes, PETROW 602.

Spirinchus dilatus sp. n. Puget Sound, SOHULTZ & CHAPMAN Ann. Mag. Nat. Hist. (10) 13 p. 68 pls. ii, iii.

SALANGIDAE.

Of China, FANG Sihensia 4 p. 231.

Paraprotosalanx gen. n. type *Protosalanx andersoni*, FANG t.c. p. 246.

Salanx brachyrostralis sp. n. China, FANG t.c. p. 257.

GALAXIIDAE.

Galaxias cleaveri sp. n. Tasmania, SCOTT Pap. Roy. Soc. Tasm. (1933) 1934 p. 41 pl. vi.

GONOSTOMATIDAE.

Synopsis of genera, LEGENDRE 459 p. 290.

Bonapartia pedaliota, PARR 584.

Cyclothone braueri, *pallida*, *microdon* notes, PARR 584.

Margrethia disjuncta sp. n. W. Indies, MYERS Smithson. Misc. Coll. 91 p. 1.

Maurolicus pennanti, LEGENDRE 459 p. 288.

STERNOPTYCHIIDAE.

From stomachs of *Germo alalunga*, LEGENDRE 459.

Acanthopolyipnus subgen. n. (of *Polyipnus*) type *Polyipnus fraseri*, FOWLER Proc. Acad. N.S. Philad. 85 p. 257.

Polyipnus fraseri sp. n. Philippines' FOWLER t.c. p. 257 fig. 19.

ANOPTERIDAE.

Anopterus pharao, LEGENDRE 459.

STOMIATIDAE.

Bathymbryx gen. n., *istiophasma* sp. n. Bermuda, BEEBE Bull. N.Y. Zool. Soc. 37 p. 190 fig.

Echiostoma key to spp. p. 14, *E. calliobarba* sp. n. p. 15 fig., *ctenobarba ramifer* subsp. n. p. 17 fig. Caribbean Sea, PARR Bull. Bingham Ocean. Coll. 4 (6).

Elapterostomias gen. n. p. 258, *philippinus* sp. n. Philippines p. 259 fig. 20, FOWLER Proc. Acad. N.S. Philad. 85.

Idiacanthus fasciola descr. and fig., anatomy, larvae, sexual dimorphism etc., BEEBE Zoologica 16 p. 156.

Melanostomias stewarti p. 262 fig. 23, *globulifer* p. 263 fig. 24, *vierecki* p. 265 fig. 25 spp. n. Philippines, FOWLER t.c.

Microdontostomias gen. n. p. 259, *orientalis* sp. n. Philippines p. 261 fig. 21, FOWLER t.c.

Pseudeustomias gen. n. p. 261, *myersi* sp. n. Philippines p. 262 fig. 22, FOWLER t.c.

Stomias monographed by (synopsis of spp. p. 44), EGE 213.

Stylophthalmus larva of *Idiacanthus*, BEEBE 35.

OSTEOGLOSSIDAE.

Delsmania subgen. n. (of *Scleropages*) type *Osteoglossum formosum*, FOWLER Proc. Acad. N.S. Philad. 85 p. 243.

†*Musperia* gen. n. type *Carpolithes radiata* Heer, SANDERS Verh. Geol. Mijnb. Gen. 11 (1) p. 13.

†*Phareodus queenslandicus* sp. n. Oligocene Australia, HILLS Mem. Qd. Mus. 10 (4) p. 160 pls. xviii-xix text-figs. 3-7.

NOTOPTERIDAE.

Chitala subgen. n. (of *Notopterus*) type *Mystus chitala*, FOWLER Proc. Acad. N.S. Philad. 85 p. 244.

†*Notopterus notopterus* figd., SANDERS 669.

MORMYRIDAE.

Gnathonemus pongolensis sp. n. S. Africa, FOWLER Proc. Acad. N.S. Philad. 86 p. 419 figs. 6.

Marcusenius maculipinnis sp. n. Belgian Congo, NICHOLS & LA MONTE Amer. Mus. Nov. 723 p. 1 fig. 1.

GONORHYNCHIDAE.

†*Colpopholis squamosus* figd., CHABANAUD 137.

†*Notogoneus parvus* sp. n. Oligocene Australia, HILLS Mem. Qd. Mus. 10 (4) p. 164 pl. xx text-figs. 8-9.

HAPLOMI.

ESOCIDAE.

†*Anthracoperca* gen. n. p. 79, *siebergi* sp. n. Eocene Germany, VOIGT Nova Acta Leop. Halle N.F. 2 p. 80 pl. iv figs. 5-7, pl. v figs. 1-3, pl. vi figs. 1-6, pl. vii figs. 1-4, pl. viii figs. 9-12, 18, 20-22, pl. ix figs. 2, 6-8, pl. x figs. 8-12, pl. xi figs. 3-7, pl. xii figs. 7-10, pl. xiii fig. 1, pl. xiv fig. 3 text-figs. 20-21.

†*Palaeosox* gen. n., *fritzchei* sp. n. Eocene Germany, VOIGT t.c. p. 62 pl. iii figs. 1-8, pl. iv figs. 1-2, pl. v fig. 4, pl. vi figs. 8-10, pl. vii figs. 5-8, 15, 16, pl. xii fig. 5, pl. xiii figs. 3-5, 10, pl. xiv fig. 2 text-figs. 15-16.

INIOMI.

SYNODONTIDAE.

Harpodon mortenseni sp. n. Bali Sea, HARDENBERG Treubia 14 1933 p. 221 fig.

Peltharpadon subgen. n. (of *Harpodon*) type *Harpodon squamosus*, FOWLER Proc. Acad. N.S. Philad. 85 p. 281.

Saurida grandisquamis, HARDENBERG
t.c. p. 220.

SUDIDAE.

Bathypterois (*Hemipterois*) *nigrescens*
sp. n. Caribbean Sea, PARR Bull. Bingham Ocean. Coll. 4 (6) p. 19.

Chlorophthalmus agassizi, LEGENDRE
459 p. 314.

Paralepis key to spp. p. 319, from
stomachs of *Germo alalunga* pp. 323-
329, LEGENDRE 459; *P. philippinus*
sp. n. Philippines, FOWLER Proc. Acad.
N.S. Philad. 85 p. 281 fig. 42.

MYCTOPHIDAE.

Revision of types in Museum of Com-
parative Zoölogy, Harvard, PARR 585.

Key to Atlantic genera and spp.,
post-larvae and adults from stomachs of
Germo alalunga, LEGENDRE 459.

Diaphus phillipsi p. 287 fig. 47,
thiollierei p. 289 fig. 48, *handi* p. 290
fig. 49, *streetsi* p. 291 fig. 50, *layi* p. 292
fig. 51, *harveyi* p. 294 fig. 52, *aliciae*
p. 295 fig. 53, *longleyi* p. 296 fig. 54,
kendalli p. 297 fig. 55, *dahlgreni* p. 299
fig. 56, *faustinoi* p. 300 fig. 57, *jouani*
p. 301 fig. 58, *gudgeri* p. 302 fig. 59,
ehrhorni p. 304 fig. 60, *whitleyi* p. 305
fig. 61, *monodi* p. 306 fig. 62, *lucifrons*
p. 307 fig. 63, *reidi* p. 309 fig. 64, *steadii*
p. 310 fig. 65, *ashmeadi* p. 311 fig. 66,
carlsoni p. 312 fig. 67, *meyeri* p. 314
fig. 68, *crameri* p. 314 fig. 69, *burtoni*
p. 315 fig. 70, *scapulofulgens* p. 316
fig. 71, *umbroculus* p. 317 fig. 72, *bryani*
p. 319 fig. 73, *dehaveri* p. 320 fig. 74,
atkinsoni p. 321 fig. 75 spp. n. Philip-
pines, E. Indies etc., FOWLER Proc.
Acad. N.S. Philad. 85.

Lampanyctus iselini sp. n. N. Atlantic,
PARR Bull. Mus. Comp. Zool. 77 p. 60
fig. 7.

Serpa hoffmanni N. Atlantic p. 282
fig. 43, *blacki* p. 284 fig. 44, *turneri*
p. 285 fig. 45 Philippines, *bensoni*
Japan p. 286 fig. 46 spp. n., FOWLER t.c.

SCOPELARCHIDAE.

Odontostomops subgen. n. (of *Evermannella*) type *Evermannella normalops*,
FOWLER Proc. Acad. N.S. Philad. 85
p. 322.

CETOMIMIDAE.

Revision, PARR Bull. Bingham Ocean.
Coll. 4 (6) p. 20.

(N-4573 b)

Cetomimus kerdops sp. n. Caribbean
Sea p. 25 fig. 6, *C. gilli* notes p. 24,
PARR t.c.

Cetostomus regani descr. and fig.,
PARR t.c. p. 27 fig. 7.

Ditropichthys gen. n. type *Cetomimus*
storeri, PARR t.c. p. 22 fig. 5.

Gyrinomimus gen. n., *myersi* sp. n.
Caribbean Sea, PARR t.c. p. 29 figs. 8, 9.

LYOMERI.

SACCOPHARYNGIDAE.

Saccopharynx, notes, BERTIN 54;
S. johnsoni p. 45 fig. 41, *schmidti* p. 48
pl. fig. 1, pl. ii text-figs. 42-46 spp. n.
N. Atlantic, BERTIN Dana Rep. Carls-
berg Foundation Oceanogr. Exped.
1928-30 3; *S. schmidti* sp. n. Australia,
BERTIN C.R. Acad. Sci. Paris 198
p. 1633;

EURYPHARYNGIDAE.

Eurypharynx notes, BERTIN 54.

OSTARIOPHYSI.

CYPRINOIDEA.

Of China, TCHANG 777.

CHARACIDAE.

Hyphessobrycon ornatus sp. n. Brazil,
AHL SitzBer. Ges. naturf. Fr. 1934 p. 238
figs.

Othonocheirodus eigenmanni, MYERS
546.

Vesicatrux carteri sp. n. British
Guiana, NORMAN Ann. Mag. Nat. Hist.
(10) 14 p. 336 figs. A-C.

ANOSTOMIDAE.

Curimatopsis maculatus sp. n. Argen-
tine, AHL SitzBer. Ges. naturf. Fr. 1934
p. 240.

HEMIODONTIDAE.

Poecilobrycon vittatus sp. n. Brazil,
AHL Zool. Anz. 106 p. 124.

CATOSTOMIDAE.

Catastomus syncheilus sp. n. U.S.A.,
HUBBS & SCHULTZ Univ. Wash. Pub.
Biol. 2 (1) 1932 p. 6.

CYPRINIDAE.

Of China, LIN 472, 473.

Acanthorhodeus jeholicus p. 33 pl. i figs. 1-2, *tokunagai* p. 35 pl. xiii fig. 2 spp. n. Jehol, MORI Rep. First Sci. Exped. Manchoukuo (V) 1.

Acanthorutilus handlirschi sp. n. Asia Minor, PIETSCHMANN Anz. Akad. Wiss. Wien 70 p. 21.

Adamacypris subgen. n. (of *Barbus*) type *Puntius proctozysron*, FOWLER Proc. Acad. N.S. Philad. 86 p. 125.

Alburnoides oblongus sp. n. Turkestan, BULGAKOV Trans. sci. Soc. Turkest. 1 1923 p. 227 fig.; *A. bipunctatus tzanevi* subsp. n. Bulgaria, CHICHKOFF Bull. Soc. Bulg. Geogr. 1 1933 p. 376 fig. 1.

Barbus cataractae, herrei spp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 280 figs. 40-41; *B. spilopterus* p. 122 fig. 78, *chondrorhynchus* p. 123 fig. 81 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86; *B. partipentazona* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 344 fig. 8; *B. stigmaticus* p. 421 figs. 7-8, *grouti* p. 422 figs. 9-10 Natal, *dendrotrachelus* p. 424 figs. 11-12 Transvaal, *tugelensis* p. 425 figs. 13-14 Natal, *crocodilensis* p. 426 figs. 15-16 Transvaal, *ivongensis* p. 428 figs. 17-18, *tristigmaturus* p. 430 figs. 19-20 Natal spp. n., FOWLER Proc. Acad. N.S. Philad. 86; *B. marleyi* sp. n. Natal, FOWLER Ann. Natal Mus. 7 p. 407 fig. 2; *B. shanensis* sp. n. Burma p. 362 fig. 3, *B. puntio* p. 369 fig. 6, HORA & MUKERJI Rec. Ind. Mus. 36; *B. clavatus burtoni* subsp. n. Burma, MUKERJI J. Bombay N.H. Soc. 37 p. 64 pl. iii fig. 1 (?) text-figs. 10-11; *B. sachsii* from Singapore, BEAUFORT 30; *B. bramoides* = *B. balleroides*, PELLEGRIN 595; *B. sanna, hexastichus*, HORA & MUKERJI 384; *B. (Labeobarbus) longirostrum* sp. n. Yantze-kiang, KIMURA J. Shanghai Sci. Inst. (III) 1 p. 114 pl. iv fig. 2; *B. (Lissochilichthys) krempfi* sp. n. Tonkin, PELLEGRIN & CHEVEY Bull. Soc. zool. Fr. 59 p. 339.

Barilius infra fasciatus p. 141 figs. 114-115, *buddhae* p. 142 fig. 116 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86; *B. huahinensis* sp. n. Siam, FOWLER t.c. p. 347 figs. 9, 10.

Capoetobrama kushcakewitschi orientalis subsp. n. U.R.S.S., NIKOLSKIJ C.R. Acad. Sci. U.R.S.S. 2 p. 204.

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Chanodichthys kurematsui sp. n. Yangtze-kiang, KIMURA t.c. p. 88 pl. iii fig. 1.

Chela pointoni p. 108 fig. 60, *barroni, stigmabrachium* p. 109 figs. 61, 62 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86; *C. maculicauda* sp. n. Siam, SMITH J. Siam Soc. 9 p. 301.

Coreius Chinese spp., LIN 470.

Crossocheilus caudiguttatus sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 137 fig. 103; *C. elongatus* sp. n. Tonkin, PELLEGRIN & CHEVEY t.c. p. 340; *C. latius punjabensis* subsp. n. India, MUKERJI J. Bombay N.H. Soc. 37 p. 53 fig. 7.

†*Ctenopharyngodon idellus* figd., BIEN 58.

Culter synopsis of spp., LIN 474; *C. recurviceps*, BERG 45.

Cyclocheilichthys kontinnensis sp. n. Annam, CHEVEY Bull. Mus. Paris (2) 6 p. 32 fig. 1; *C. rubripinnis* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 343 fig. 7.

Cyprinus pellegrini p. 20 fig. 5, *yunnanensis* p. 21 fig. 6 spp. n. Yunnan; *C. carpio, rabaudi* fig.; TCHANG t.c.

Dangila spilopleura sp. n. Siam, SMITH J. Siam Soc. 9 p. 307 pl. x.

Danio key to spp. of subgen. *Brachydanio* p. 130, *D. (Brachydanio) sondhii* sp. n. S. Shan States p. 128 fig. 1, *shanensis* notes p. 128; key to spp. of subgen. *Danio* p. 133, *D. (Danio) aequipinnatus* p. 131, *annandalei* p. 132 fig. 2 notes; HORA & MUKERJI Rec. Ind. Mus. 36.

Engraulicypris whitei sp. n. Transvaal, VAN DER HORST Ann. Transv. Mus. 15 p. 281 fig.

†*Eocyprinus* gen. n. p. 63, *sumatranus* sp. n. Tertiary Sumatra, SANDERS Verh. Geol. Mijnb. Gen. 11 (1) p. 64 pl. viic.

Erythroculter macrophthalmus nom. n. = *Culter recurviceps*, Tanaka nec Richardson, BERG C.R. Acad. Leningrad 1934 p. 266.

Garra salweenica sp. n. Burma p. 365 figs.; *G. gravelnyi* notes p. 368, HORA & MUKERJI Rec. Ind. Mus. 36; *G. spinosa* p. 138 figs. 104-106, *fuliginosa* p. 139 figs. 108-111 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86.

Gobio belingi sp. n. p. 350 pl. i figs. 2-3, *gobio carpathicus sarmaticus natio* n. p. 348 pl. i figs. 4-5 Ukraine, GLASTENENKO Bull. Soc. zool. Fr. 59; *G. liguanensis* sp. n. p. 14 pl. v fig. 1, *G. gobio tenuicorpus* subsp. n. p. 13 pl. iv fig. 2 Jehol, MORI t.c.

Grandisquamachela subgen. n. (of *Parachela*) type *Parachela williaminae*, FOWLER Proc. Acad. N.S. Philad. 86 p. 111.

Hampala dispar sp. n. Siam, SMITH J. Siam Soc. 9 p. 309 pl. xi.

Hemibarbus longianalis sp. n. Yangtze-kiang, KIMURA t.c. p. 123 pl. iv fig. 1.

Holotylognathus gen. n., *reticulatus* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 135 figs. 97, 98.

Labeo frenatus p. 129 figs. 91-92, *sinkleri* p. 130 figs. 93-94, *soplaensis* p. 131 figs. 95-96 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86; *L. (Varicorhinus) rendahli* sp. n. Yangtze-kiang, KIMURA t.c. p. 125 pl. iii fig. 2; *L. munensis* sp. n. Siam, SMITH J. Siam Soc. 9 p. 313 pl. xii.

Leuciscus (Idus) waleckii joholensis subsp. n. E. Mongolia, KIMURA J. Shanghai Sci. Inst. (III) 3 p. 13 pl. iii fig. 1; *L. bergi* sp. n. U.S.S.R., KASHKAROV Trans. sci. Soc. Turkest. 2 1925 p. 58 fig.

Lissochilus hutchinsoni sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 120 figs. 76-77; *L. smedleyi* sp. n. Malay, BEAUFORT Bull. Raffles Mus. 8 1933 p. 34.

Macrocheirichthys laosensis sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 112 fig. 64.

Metzia mesembrina, MYERS 546.

Microphysogobio gen. n. p. 39, *hsinglungshanensis* sp. n. Jehol p. 40 pl. xiv fig. 2, MORI t.c.

Morulus erythrostictus sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 127 figs. 85, 86.

Opsariichthys elegans sp. n. Tonkin, PELLEGRIN & CHEVEY t.c. p. 342.

Oreinus sinuatus var. *griffithii* p. 300 figs. 4, 5, possible hybrid with *Schizothorax labiatus* p. 307 figs. 6-8, HORA 382.

Osteochilus prosemon sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 116 figs. 66, 67; *O. sondhii* sp. n. Burma, HORA & MUKERJI Rec. Ind. Mus. 36 p. 359 fig. 2; *O. brachynotopteroideus* sp. n. Annam, CHEVEY t.c. p. 34 figs. 2, 3; †*O. fossilis* sp. n. Tertiary Sumatra, SANDERS Verh. Geol. Mijnb. Gen. 11 (1) p. 60 pl. viii.

Parachela williaminae sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 111 fig. 63.

Paralabuca typus from Malay, BEAUFORT 30.

Paraleucogobio of Kwangtung etc., LIN 470.

Procypris niger sp. n. S.E. China, HERRE Lingnan Sci. J. 13 p. 311 pl. xxxiii.

Pseudogobio Chinese spp., LIN 470; *P. longirostris* sp. n. Jehol, MORI t.c. p. 17 pl. iv fig. 1.

Ptychidio jordanii from Hong Kong, HERRE 349.

†*Puntius bussyi* sp. n. Tertiary Sumatra, SANDERS Verh. Geol. Mijnb. Gen. 11 (1) p. 61 pl. viib; *P. (Barbodes) jolamarki* p. 310, *daruphani* p. 312 spp. n. Siam, SMITH J. Siam Soc. 9.

Rambaibarnia subgen. n. (of *Danio*) type *Danio regina* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 341 fig. 6.

Rasbora borapetensis sp. n. Siam, SMITH J. Siam Soc. 9 p. 302; *R. tobana* sp. n. Sumatra, AHL SitzBer. Ges. naturf. Fr. 1934 p. 237; *R. stigmatura* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 341 fig. 5; *R. pallopinna*, HERRE 352; *R. taytayensis* from Burma, HORA & MUKERJI 385 p. 357 fig. 1.—†*R. antiqua* p. 31 pl. viia, *mohri* p. 35 spp. n. Tertiary Sumatra, SANDERS Verh. Geol. Mijnb. Gen. 11 (1).

Rhinogobio Chinese spp., LIN 470.

Rhodeus mantschuricus sp. n. Manchuria, MORI J. Chosen N.H. Soc. Korea 1934 p. 1 fig. 1. [sep. pag.].

Saurogobio Chinese spp., LIN 470; *S. brevicaudus*, KIMURA t.c. p. 14 pl. iii fig. 2.

Scaphiodontopsis gen. n. p. 117,
acanthopterus sp. n. Siam p. 119 figs. 74-
75, FOWLER Proc. Acad. N.S. Philad.
86.

Schizothorax prophylax sp. n. Asia
Minor, PIETSCHMANN Anz. Akad. Wiss.
Wien 70 p. 21; *S. labiatus* p. 292 fig. 1,
esocinus p. 297, HORA 382. [See also
Oreinus.]

†*Thynnichthys amblyostoma* figd.,
SANDERS 669.

Toxabramis hoffmanni sp. n. China,
LIN Lingnan Sci. Journ. 13 p. 440 fig. 1;
T. hondemeri abbreviata var. n. Tonkin,
PELLEGRIN Bull. Soc. zool. Fig. 59 p. 334.

Tylognathus brunneus p. 131 figs. 87-
88, *caudimaculatus* p. 133 figs. 89-90,
rhabdoura p. 133 figs. 99-100, *entemema*
p. 134 figs. 101-102 spp. n. Siam,
FOWLER Proc. Acad. N.S. Philad. 86.

Varicorhinus tonkinensis sp. n. Ton-
kin, PELLEGRIN & CHEVEY t.c. p. 338;
V. pestai sp. n. Asia Minor, PIETSCH-
MANN Anz. Akad. Wiss. Wien 70 p. 21.

Xenocheilichthys gen. n., *gudgeri* sp. n.
Siam, SMITH J. Siam Soc. 9 p. 304 figs.
a-b.

Xenocypris suifuensis sp. n. Yangtze-
kiang, KIMURA t.c. p. 65.

Zacco chengtui p. 44 pl. ii fig. 1,
macrophthalmus p. 46, pl. ii fig. 2 spp. n.
Yangtze-kiang, KIMURA t.c.

COBITIDAE.

Acanthophtalmus pahangensis p. 31,
A. (Cobitophis) muraeniformis p. 32
spp. n. Malay, BEAUFORT Bull. Raffles
Mus. 8 1933.

Acanthopsoidea gen. n., *gracilis* sp. n.
Siam, FOWLER Proc. Acad. N.S. Philad.
86 p. 103 fig. 55.

Lepidocephalus furcatus sp. n. Malay,
BEAUFORT t.c. p. 33.

Misgurnus elongatus sp. n. Yangtze-
kiang, KIMURA J. Shanghai Sci. Inst.
(III) 1 p. 158 pl. v fig. 1; *M. arenae*
sp. n. China, LIN Lingnan Sci. Journ.
13 p. 227 figs. 5-6.

Nemacheilus thai p. 104 fig. 56,
spilotus p. 105 fig. 57, *desmotes*, p. 107
fig. 59 spp. n. Siam, FOWLER t.c.;
N. choprai sp. n. N.W. Frontier, India
p. 310 figs., *N. kashmirensis* descr. and
fig. p. 317 figs., HORA Rec. Ind. Mus.
36.

Oreonectes yenlingi = *O. platycephalus*
descr., HERRE 352.

HOMALOPTERIDAE.

Crossostoma tinkhami sp. n. S.E.
China, HERRE Lingnan Sci. J. 13 p. 286.

Homaloptera sexmaculata p. 98 figs.
47, 48, *septemmaculata* p. 99 figs. 49, 50
spp. n. Siam, FOWLER Proc. Acad. N.S.
Philad. 86; *H. hingi* sp. n. S.E. China,
HERRE t.c. p. 287.

Lepturichthys notes on spp., FANG
226.

Parhomaloptera disparis sp. n. China,
LIN Lingnan Sci. Journ. 13 p. 225 figs.
1-4.

Pseudogastromyzon fasciatus, *fangi*
descr. and fig., FANG 226.

SILUROIDEA.

Of China, TCHANG & SHIH 780.

ARIIDAE.

Netuma hassleriana sp. n. Panama,
BORODIN Copeia 1934 p. 33 figs. A-B.

†*Otolithus (Arius) planus* p. 504 pl. xiv
fig. 14, *aequus* p. 504 pl. xiv fig. 15
spp. n., *anglicus* figd., Eocene England,
FROST Ann. Mag. Nat. Hist. 14.

DORADIDAE.

Ageneiosus uruguayensis sp. n.
Uruguay, DEVINCENZI An. Mus. Mon-
tevideo 4 (3) 1933 p. 3 pl. i.

Auchenipterus paysanduanus sp. n.
Uruguay, DEVINCENZI t.c. p. 2.

SILURIDAE.

Herklotsella gen. n., *anomala* sp. n.
Hong Kong, HERRE Hong Kong Nat.
4 1933 p. 179.

Wallago krattensis sp. n. Siam, FOW-
LER Proc. Acad. N.S. Philad. 86 p. 335
fig. 1.

BAGRIDAE.

Aoria amemiyae sp. n. Yangtze-kiang,
KIMURA J. Shanghai Sci. Inst. (III) 1
p. 166 pl. v fig. 2; †*A. saropterix* figd.,
SANDERS 669.

Auchenoglanis occidentalis, biscutatus,
CHABANAUD 136.

Chrysichthys macropogon, delhezi,
CHABANAUD 136.

Leiocassis chaseni sp. n. Malay, BEAUFORT Bull. Raffles Mus. 8 1933 p. 34; *L. albicollaris* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 337 fig. 2; *L. bicolor* sp. n. Siam, FOWLER t.c. p. 95 fig. 43; *L. hirsutus* sp. n. S.E. China, HERRE Lingnan Sci. J. 13 p. 285; *L. kaifenensis* sp. n. Honan, N. China, TCHANG Bull. Fan. Mem. Inst. Biol. (Zool.) 5 p. 41; *L. lui* sp. n. China, TCHANG & SHIH Lingnan Sci. Journ. 13 p. 434.

Myxus stigmaturus sp. n. Siam, FOWLER Proc. Acad. Nat. Sci. Philad. 86 p. 94 figs. 41-42.

Prajadhipokia gen. n. p. 338, *rex* sp. n. Siam p. 339 figs. 3, 4, FOWLER t.c.

AMIURIDAE.

Ameiurus notes on genus, TORTONESE 791.

AMBLYCEPIDAE.

Akysis leucorhynchus, maculipinnis spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 97 figs. 44-46.

SISORIDAE.

Euchiloglanis kishinouyei sp. n. Yangtze-kiang, KIMURA J. Shanghai Sci. Inst. (III) 1 p. 178 pl. vi.

Glyptosternum notes, *reticulatum* descr., distrib., sexual dimorphism, bionomics, HORA 382; *G. pallozonum* sp. n. China, LIN Lingnan Sci. Journ. 13 p. 228 figs. 7-8.

Glyptothorax laosensis p. 88 figs. 28-30, *fuscus* p. 89 figs. 31-33, *lampris* p. 91 figs. 34-36 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86.

Pteropsoglanis nom. n. = *Pteroglanis* Fowler nec Eigenmann & Pearson, FOWLER Proc. Acad. N.S. Philad. 86 p. 351.

AMPHILIIDAE.

Amphilius natalensis, FOWLER 254 p. 408 fig. 3.

CLARIIDAE.

Clarias Siamese spp., SMITH 724; *C. thienemanni* sp. n. Sumatra, AHL SitzBer. Ges. naturf. Fr. 1934 p. 235.

Heterobranchus platycephalus sp. n. Belgian Congo, NICHOLS & LA MONTE Amer. Mus. Nov. 723 p. 2 fig. 2.

PANGASIIDAE.

Pangasius longibarbis sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 87 fig. 27; †*P. indicus* figd., SANDERS 669.

Pteroglanis gen. n., *horai* sp. n. Siam, FOWLER t.c. p. 92 figs. 37-40.

MOCHOCIDAE.

Euchilichthys boulengeri sp. n. Belgian Congo, NICHOLS & LA MONTE Amer. Mus. Nov. 723 p. 3 fig. 3.

Synodontis angelicus, multimaculatus, decorus notes, PELLEGRIN 598; *S. courteti, notatus, nummifer*, CHABANAUD 136.

PIMELODIDAE.

Luciopimelodus, MAC DONAGH 494.

Rhamdia quelen, sapo, MAC DONAGH 494.

LORICARIIDAE.

Acanthicus hystrix figd., DEVINCENZI 195.

APODES.

DERICHTHYIDAE.

Benthenchelys gen. n. p. 267, *cartieri* sp. n. Philippines p. 269 fig. 29, FOWLER Proc. Acad. N.S. Philad. 85.

Derichthys serpentinus, PARR 584.

MURAENIDAE.

†*Deprandus* gen. n., *lestes* sp. n. Tertiary U.S.A., GILBERT Bull. S. Calif. Acad. Sci. 20 1921 p. 29 fig.

Notorabula gen. n. type *Muraena callorhyncha*, WHITLEY Rec. Austr. Mus. 19 p. 154.

MORINGUIDAE.

Rataboura oculata sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 278 fig. 39.

MURAENESOCIDAE.

Phyllogramma gen. n. p. 46, *regani* sp. n. W. Africa p. 47 figs., PELLEGRIN Bull. Soc. zool. Fr. 59.

MACROCEPHENCHELYIDAE.

New family, FOWLER Proc. Acad. N.S. Philad. 85 p. 275.

Macrocephenchelys gen. n., *brachialis* sp. n. Macassar Strait, FOWLER t.c. p. 275 fig. 36.

CONGRIDAE.

Notes on certain genera, REID 641.

Ariosoma selenops sp. n. Tobago, REID Smithson. Misc. Coll. 91 (15) p. 4 fig. 1; *A. minor* sp. n. Cuba, RIVERO Mem. Soc. cubana Hist. nat. 8 p. 339 fig. 1; *A. brachyrhynchus* sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 269 fig. 30.

Bathycongrus megalops, stimpsoni p. 270 figs. 31-32, *bleekeri* p. 272 spp. n. Philippines, FOWLER t.c.

Bathyroconger subgen. n. (of *Uroconger*) type *Uroconger braueri*, FOWLER t.c. p. 273.

Congrhynchus gen. n. p. 272, *tala-bonoides* sp. n. Philippines p. 273 fig. 33, FOWLER t.c.

Congrina thysanochila sp. n. W. Indies, REID t.c. p. 7 figs. 2.

Leptocephalus congri vulgaris, LEGENDRE 459.

Microcephalocongrus subgen. n. (of *Bathycongrus*) type *Bathycongrus megalops*, FOWLER t.c. p. 270.

Silvesterina gen. n. p. 274, *parvibranchialis* sp. n. Philippines p. 275 fig. 35, FOWLER t.c.

Uranoconger gen. n., *odontostomus* sp. n. Celebes, FOWLER t.c. p. 274 fig. 34.

ECHELIDAE.

Merinthichthys gen. n., *sanchezi* sp. n. Cuba, RIVERO Mem. Soc. cubana Hist. nat. 8 p. 343 fig. 3.

Muraenichthys retropinnis p. 277 fig. 37, *clerae* p. 278 fig. 38 spp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85.

Myrophis emmae sp. n. Cuba, RIVERO t.c. p. 341 fig. 2.

OPHICHTHYIDAE.

Caecula natalensis sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 416 fig. 5; *C. kaupi*, HERRE 351.

Cirrhimuraena chilopogon, HARDENBERG 329.

Malvoliophis gen. n. type *Bascanichthys hemizona* = *Malvoliophis pinguis*, WHITLEY Rec. Austr. Mus. 19 p. 154.

Ophichthus cyclorhinus sp. n. Great Barrier Reef, *O. versicolor* notes, FRASER-BRUNNER Ann. Mag. Nat. Hist. (10) 13 p. 466 figs.

HETEROMI.

NOTACANTHIDAE.

Gnathenotacanthus subgen. n. (of *Polyacanthonotus*) type *Polyacanthonotus vaillanti*, FOWLER Proc. Acad. N.S. Philad. 85 p. 266.

Notacanthus abbotti sp. n. Philippines, FOWLER t.c. p. 267 fig. 28.

Polyacanthonotus vaillanti sp. n. Gulf Stream, FOWLER t.c. p. 266 fig. 27.

HALOSAURIDAE.

Halosauropsis ridgwayi sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 265 fig. 26.

SYNENTOGNATHI.

BELONIDAE.

†*Belone harmati* sp. n. Oligocene Hungary, WEILER Geol. Hungarica Buda Pesth 11 1933 p. 18 text-figs. 7-8; *B. belone*, LEGENDRE 459.

Rhaphiobelone gen. n. p. 322, *dammernani* sp. n. Philippines p. 323 fig. 76, FOWLER Proc. Acad. N.S. Philad. 85.

Strongylura longleyi sp. n. N. Atlantic, BREDER Pap. Tortugas Lab. Carn. Instn. 28 p. 12 pl. ii fig. 1a pl. iii fig. 5a.

SCOMBRESOCIDAE.

Scomberesox saurus, LEGENDRE 459.

HEMIRHAMPHIDAE.

Dermogenys siamensis sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 144 figs. 83, 84; *D. pectoralis* sp. n. Philippines, FOWLER t.c. p. 326 fig. 80.

Melapedalion gen. n. type *Oxyptorhamphus brevis*, FOWLER t.c. p. 326.

Zenarchopterus key to Philippine spp., *Z. magatensis* sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 26; *Z. atrodorsalis* Borneo p. 323 fig. 77, *kneri* Indo-Pacific p. 325 fig. 78, *basudensis* Philippines p. 326 fig. 79 spp. n., FOWLER Proc. Acad. N.S. Philad. 85; *Z. xiphophorus* sp. n. Sumatra, MOHR Zool. Meded. Leiden 17 p. 11 figs. 1-2.

EXOCEOETIDAE.

Vertebral counts in, BREDER & NICHOLS 93.

Cypselurus albimaculatus Guam p. 327 fig. 81, *candimaculatus* Philippines p. 328 fig. 82 spp. n., FOWLER Proc. Acad. N.S. Philad. 85; *C. furcatus*, FOWLER 254 p. 412 fig. 5.

Exocoetus volitans, exsiliens, BRUUN 108.

MICROCYPRINI.

†*Lithopocilus* gen. n., *brouweri* sp. n. Tertiary Celebes, BEAUFORT Verh. geol.-mijnb. Genoot. Ned. Kol. 10 p. 181

CYPRINODONTIDAE.

Aplocheilichthys macrophthalmus figd., MEINKEN 525.

Aplocheilus luzonensis sp. n. Philippines, HERRE & ABLAN Philipp. J. Sci. 54 p. 275 pl. i.

Cynolebias revision of species, *C. schreitmülleri* p. 308 Rio de Janeiro, *spinifer* p. 310 Buenos Aires spp. n., AHL Zool. Anz. 108.

†*Cyprinodon pygmaeus* sp. n. Oligocene France, PITON Bull. Soc. linn. Lyon. 3 p. 164 fig. 3.

Fundulus mkuziensis sp. n. Natal, FOWLER Ann. Natal Mus. 7 p. 411 fig. 4.

Gambusia hubbsi sp. n. Bahamas, BREDER Amer. Mus. Nov. 719 p. 1 figs.

Haplochilus carlislei sp. n. Transvaal, VAN DER HORST Ann. Transv. Mus. 15 p. 282 fig.

Jenynsia lineata, MACDONAGH 494.

†*Prolebias pontaryensis* p. 163 fig. 2, *stenoura* p. 163 fig. 1, *arvernensis* p. 167 spp. n. Oligocene France, PITON Bull. Soc. linn. Lyon. 3.

Quintana gen. n. p. 2, *atrizona* sp. n. Cuba (?) p. 4 pl. I, HUBBS Occ. Pap. Mus. Zool. Univ. Mich. 301.

ANACANTHINI.

MACRURIDAE.

Coelorhynchus marinii sp. n. Argentine, S. Georgia, HUBBS Occ. Pap. Mus. Zool. Univ. Mich. 298 p. 1 pl. i.

Garichthys gen. n. type *Coelorhynchus (Paramacurus) mirus*, WHITLEY Suppl. check-list fish. N.S. Wales (McCulloch) 3rd Ed. No. 406.

†*Otolithus (Macrurus) minimus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 14 p. 501 pl. xiv fig. 5.

GADIDAE.

†*Brosmius oligocaenus* (Oligocene), *andrussovi* (Tertiary) spp. n. Caucasus, BOGAČEW (see Weiler, N. Jahrb. Min. Geol. Paläont. Stuttgart Ref. III (5) p. 822).

†*Gadus atropatanus, kwitkae* spp. n. Tertiary Caucasus, BOGAČEW t.c.

†*Lota kulai* sp. n. Pliocene Germany, PIETSMANN Palaeont. Z. Berlin 16 p. 48 pl. iii.

†*Nemopteryx athanasui* figd., WEILER 827.

Onos vulgaris, LEGENDRE 459.

†*Otolithus (Gadus) rectus* p. 501 pl. xiv fig. 4, *subnotus* p. 500 pl. xiv fig. 1 spp. n., *eocenicus, meyeri* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 14; *O. (Phycis) gracilis* sp. n. Eocene England, FROST t.c. p. 502 pl. xiv fig. 9.

MERLUCCIIDAE.

Merluccius vulgaris, LEGENDRE 459.

†*Otolithus (Merluccius) shepherdii* figd., FROST 283.

ALLOTRIOGNATHI.

TRACHYPTERIDAE.

Agrostichthys benhami sp. n. Tasmania, SCOTT Pap. Roy. Soc. Tasm. (1933) 1934 p. 47, pls. vii, viii, text-fig. 2.

Trachypterus semiophorus, HARDENBERG 330.

LOPHOTIDAE.

Lophotes synonymy p. 239, *L. guntheri* descr. and fig., synonymy p. 241 pl. liii, GRIFFIN 308.

SOLENICHTHYES.

CENTRISCIDAE.

Centriscus scutatus, swimming position, HERRE 351 p. 30.

MACRORHAMPHOSIDAE.

Macrorhamphosus otteri sp. n. New Jersey, FOWLER Proc. Acad. N.S. Philad. 86 p. 353 fig. 1; *M. fernandezianus* figd., MOHR 532.

AULOSTOMATIDAE.

†*Aulostoma* aff. *media* figd., WEILER 827.

SYNGNATHIDAE.

Doryichthys brachyrhynchops sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 145 figs. 119, 120.

Doryrhamphus negrosensis sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 28.

Entelurus aequoreus, LEGENDRE 459.

Hippocampus poeyi sp. n. Cuba, RIVERO Mem. Soc. cubana Hist. nat. 8 p. 32 fig.; *H. kincaidi* = *H. brunneus* = *H. styliifer* = *H. punctulatus*, LONGLEY 483.

Microphis brachyurus from Natal, SMITH 726.

Syngnathus Mediterranean spp., ANOONA 11, 12; *S. torrei* = *Doryichthys lineatus*, LONGLEY 483.

BERYCOMORPHI.

Ostracoberyx gen. n., *dorogenys* sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 353 fig. 105.

BERYCIDAE.

†*Kentichthys* gen. n., *sadeki* sp. n. Tertiary Egypt, CUVILLIER & JOLEAUD Bull. Inst. égypt. 16 p. 93 pls. i-iii.

GIBBERICHTHYIDAE.

Gibberichthys pumilus, PARR 584.

ZEOMORPHI.

ZEIDAE.

Macrurocyttus gen. n. p. 350, *acanthopodus* sp. n. Philippines p. 351 fig. 104, FOWLER Proc. Acad. N.S. Philad. 85.

Zen cypho sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 350 fig. 103.

Zenion japonicum sp. n. Japan, KAMOHARA Proc. Imp. Acad. Tokyo 10 p. 597 fig. 1.

Zenopsis conchifer, FOWLER 248.

CAPROIDAE.

Antigonia browni sp. n. New Jersey, FOWLER Proc. Acad. N.S. Philad. 86 p. 356 fig. 8.

Capros aper, LEGENDRE 459.

PERCOMORPHI.

PERCOIDEA.

SERRANIDAE.

Acroperca gen. n. type *Siniperca roulei*, MYERS Hong Kong Nat. 4 1933 p. 76.

Cephalopholis hemistictus notes, TON-NESE 789.

Dinoperca queketti, FOWLER 254 p. 427 fig. 11.

Epinephelus angustifrons = *E. morio*, LONGLEY 483.

Loxopseudochromis gen. n., *dorypterus* sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 354 fig. 106.

Opsipseudochromis gen. n. p. 355, *grammodon* sp. n. Philippines p. 357 fig. 107, FOWLER t.c.

†*Otolithus* (*Serranidarum*) *minsterensis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 384 pl. xiv fig. 13; *O. (Serranidarum) rectangulus* p. 427 pl. xv fig. 5, *ostiolatus* p. 428 pl. xv fig. 7 spp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13.

Parasphenanthias microlepis sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 462 fig. 35.

†*Percalates antiquus* sp. n. Oligocene Australia, HILLS Mem. Qd. Mus. 10 (4) p. 166 pls. xxi-xxiv text-figs. 10-13.

Pseudochromis fowleri p. 45, *swaini* p. 46 spp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934).

Pseudocrenilabrus gen. n. p. 462, *natalensis* sp. n. Natal p. 463 fig. 36, FOWLER t.c.

†*Serranus budensis, simionescui* figd., WEILER 827.

Siniperca paichuanensis sp. n. China, FU Bull. Honan Mus. 1 p. 93 fig. 37.

PRIACANTHIDAE.

†*Priacanthus robustus* sp. n. Oligocene Caucasus, BOGAČEW (see Weiler, N. Jahrb. Min. Geol. Paläont. Stuttgart Ref. III (5) 1934 p. 822).

CHILODIPTERIDAE.

Apogonichthys landoni sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 40; *A. zuluensis* sp. n. Zululand, FOWLER Ann. Natal Mus. 7 p. 424 fig. 10.

†*Otolithus (Apogon) tuberculatus* sp. n. p. 430 pl. xv fig. 11, *eocenicus* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 13.

PERCIDAE.

†*Amphiperca* gen. n., *multiformis* sp. n. Eocene Germany, WEITZEL. Notizbl. Ver. Erdk. Darmstadt 5 1933 p. 90 pl. viii figs. 1-3.

†*Otolithus (Percidarum) concavus, bartonensis* figd., FROST 263; †*O. (Perca) similis* p. 383 pl. xiv fig. 11, *striatus* p. 385 pl. xiv fig. 14 spp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13.

CARANGIDAE.

Caranx microbrachium sp. n. Natal, FOWLER Ann. Natal Mus. 7 p. 420 fig. 9; *C. trachurus*, LEGENDRE 459; *C. (Carangoides) auroguttatus, fulvoguttatus, C. (Caranx) stellatus, C. (Selar) djebbaba*, HARDENBERG 330; †*C. abbreviatus, weileri* spp. n. Tertiary Caucasus, BOGAČEW (see Weiler, N. Jahrb. Min. Geol. Paläont. Stuttgart Ref. III (5) p. 822).

Chorinemus sancti-petri, HARDENBERG 330.

Lichia glauca, LEGENDRE 459.

Olistus notes p. 155, *O. hedlandensis* sp. n. N. Australia p. 156 fig. 2, WHITLEY Rec. Austr. Mus. 19.

Seriola nigrofasciata, FOWLER 254 p. 419 fig. 8; †*S. aff. stoppani* figd., WEILER 827.

Trachinotus madeirensis sp. n. Madeira, BORODIN Bull. Vanderbilt Mar. Mus. 1 p. 111 pl. i fig. 1.

Ulua mandibularis, HARDENBERG 330.

CENTROPOMIDAE.

Brachyglaucosoma subgen. n. (of *Glaucosoma*) type *G. taeniatus*, FOWLER Proc. Acad. N.S. Philad. 85 p. 357.

Glaucosoma taeniatus sp. n. Philippines, FOWLER t.c. p. 357 fig. 108.

†*Otolithus (Centropomus) superpendens* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 426 pl. xv fig. 3.

LUTJANIDAE.

Lutjanus coatesi sp. n. Queensland, WHITLEY Mem. Qd. Mus. 10 p. 176 pl. xxvi fig. 2 text-fig.; *L. gibbus, obscurus, roseigaster, bidens*, unicolor notes, WHITLEY t.c. p. 179.

†*Otolithus (Lutjanidarum) - gracilis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 385 pl. xiv fig. 15.

Paradicichthys venenatus figured, WHITLEY t.c. pl. xxvi fig. 1.

Pristipomoides vanderbilti sp. n. Florida, BORODIN Bull. Vanderbilt Mar. Mus. 1 p. 113 pl. i fig. 2.

Vegetichthys caeruleus sp. n. Japan, KATAYAMA Proc. Imp. Acad. Tokyo 10 p. 436 figs. 1-2.

NEMIPTERIDAE.

Scolopsis vosmeri from S. Africa, SMITH 726.

SCIAENIDAE.

Aspericorvina subgen. n. (of *Johnius*) type *Johnius melanobrachium*, FOWLER Proc. Acad. N.S. Philad. 86 p. 153.

Cynoscion fusiformis sp. n. Florida, BORODIN Bull. Vanderbilt Mar. Mus. 1 p. 115 pl. ii fig. 1.

Johnius melanobrachium sp. n. Siam, FOWLER t.c. p. 154 fig. 122.

Micropogon barretoi sp. n. Argentina p. 70, *opercularis* p. 60 fig. 4, *patagonensis* p. 63 pl. vi text-fig. 5, *crawfordi* p. 67 pl. vii text-fig. 6 descr. and fig., MACDONAGH Rev. Mus. La Plata 34.

Otolithoides siamensis sp. n. Siam, FOWLER t.c. p. 153 fig. 121.

†*Otolithus (Sciaenidarum) sheppeyensis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 427 pl. xv fig. 4.

MULLIDAE.

Parupeneus pleurospilos, HARDENBERG 330.

LETHRINIDAE.

Pentapodus milii, WHITLEY 836.

SPARIDAE.

Boops vulgaris, LEGENDRE 459.

Diplodus sargus, LEGENDRE 459.

†*Otolithus* (*Sparidarum*) *densus* p. 382 pl. xiv fig. 8, *oligocenicus* p. 383 pl. xiv fig. 9 spp. n., *soellingensis* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 13; *O. (Cantharus) denticulatus* sp. n. Eocene England, FROST t.c. p. 381 pl. xiv fig. 3; *O. (Dentex) pulcher* p. 380 pl. xiv fig. 1, *ovatus* p. 381 pl. xiv fig. 2, *regularis* p. 384 pl. xiv fig. 12 spp. n. Eocene England, FROST t.c.; *O. (Pagellus) symmetricus* sp. n. Eocene England, FROST t.c. p. 382 pl. xiv fig. 5; *O. (Pagrus) bartonensis* sp. n. Eocene England, FROST t.c. p. 381 pl. xiv fig. 4; *O. (Sargus) eocenicus* sp. n. Eocene England, FROST t.c. p. 382 pl. xiv fig. 7.

Pachymetopon germanum sp. n. S. Africa, BARNARD Ann. Mag. Nat. Hist. 13 p. 230 fig. 2.

Spondyliosoma cantharus, LEGENDRE 459.

MAENIDAE.

†*Otolithus* (*Smaris*) *eocenicus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 428 pl. xv fig. 6.

TOXOTIDAE.

†*Toxotes beauforti* sp. n. Tertiary Sumatra, SANDERS Verh. Geol. Mijnb. Gen. 11 (1) p. 77 pl. vii d.

SCORPIDIDAE.

Drepanoscorpis gen. n., *gilchristi* sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 476 fig. 42.

CHAETODONTIDAE.

Chaetodon cingulatus sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 480 fig. 45; *C. gracilis* = *C. sedentarius*, LONGLEY 483.

Euxiphipops gen. n. (for *Heteropyge* Fraser-Brunner pre-occ.), FRASER-BRUNNER Copeia 1934 p. 192.

Holacanthus rodriguezi p. 448 pl. xxiii fig. 1, *lasti* p. 449 pl. xxiii fig. 2 spp. n. Zanzibar, VON BONDE Ann. Natal Mus. 7.

Pomacanthus rathbuni = *P. arcuatus*, LONGLEY 483.

HISTIOPTERIDAE.

Undecimus gen. n. type *Quinquarius hendecacanthus*, WHITLEY Suppl. checklist fish.*N.S. Wales (McCulloch) 3rd ed. No. 417.

CICHLIDAE.

Cichlasoma guija sp. n. (to replace *C. meeki* Hildebrand), HILDEBRAND Copeia 1934 p. 192; *C. facetum*, MAC DONAGH 494.

Leptolamprologus monogramma, NICHOLS & LA MONTE 555.

Steatocranus elongatus sp. n. Belgian Congo, NICHOLS & LA MONTE Amer. Mus. Nov. 723 p. 5 fig. 4.

CEPOLIDAE.

†*Otolithus* (*Cepola*) *elegans* p. 430 pl. xv fig. 15 sp. n., *prerubescens*, *bartonensis* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 13.

CIRRHITIDAE.

Ozycirrhites morrisi sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 359 fig. 109.

DITREMIDAE.

†*Otolithus* (*Ditrema*) *sheppeyensis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 383 pl. xiv fig. 10.

POMACENTRIDAE.

Abudefduf quinquilineatus sp. n. Zanzibar, VON BONDE Ann. Natal Mus. 7 p. 452 pl. xxiii fig. 6; *A. chengi* sp. n. China, LIN Lingnan Sci. J. 13 p. 683 fig. 2.

Dascyllus edmondsoni sp. n. Hawaii, PIETSCHMANN Anz. Akad. Wiss. Wien 71 p. 100.

Pomacentrus zanzibarensis sp. n. Zanzibar, VON BONDE t.c. p. 452 pl. xxiii fig. 5; *P. inornatus* from Hong Kong, HERRE 350; *P. rubridorsalis* = *P. adustus*, LONGLEY 483.

LABRIDAE.

Cryptotomus beryllinus = *C. auro-punctatus*, LONGLEY 483.

Halichoeres kirschii = *H. poeyi*, LONGLEY 483.

Lepidaplois trilineatus sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 492 fig. 47.

Thalassoma bilaterale sp. n. Zanzibar, VON BONDE Ann. Natal Mus. 7 p. 454 p. 454 pl. xxiii fig. 7.

SCARIDAE.

†*Otolithus* (*Pseudoscarus*) *crenulatus*
sp. n. Eocene England, FROST Ann.
Mag. Nat. Hist. 13 p. 431 pl. xv fig. 17.

Pseudoscarus pleianus = *guacamaia*,
LONGLEY 483.

Scarus quadrispinosus = *taeniopterus*,
S. aracanga = *flavomarginatus* = *punc-*
tulatus, LONGLEY 483.

Sparisoma rhomaleum = *spinidens*,
S. erythrinoides = *distinctum*, *S. mas-*
chalespilos = *chrysopteron* and *squali-*
dum, LONGLEY 483.

AMMODYTIDAE.

†*Ammodytes antipai* figd., WEILER
827.

OPISTHOGNATHIDAE.

Ovstonia maccullochi sp. n. N.S.
Wales, WHITLEY Suppl. check-list fish.
N.S. Wales (McCulloch) 3rd ed. No. 419.

TRACHINIDAE.

†*Otolithus* (*Trachinus*) *falcatus* p. 428
pl. xv fig. 8, *aequalis* p. 429 pl. xv fig. 9
spp. n. Eocene England, FROST Ann.
Mag. Nat. Hist. 13.

Trachinoides gen. n. p. 119, *moroc-*
canus sp. n. p. 120 pl. ii figs. 2, 3,
BORODIN Bull. Vanderbilt Mar. Mus. 1

BOVICHTHYIDAE.

Bovichthys argentinus fig., MAC
DONAGH 494 p. 77 pl. viii fig. 2, pl. ix,
pl. x fig. 1 text-figs. 7-10.

NOTOTHENIIDAE.

Notothenia patagonica fig., MAC
DONAGH 494 p. 84 pl. x figs. 2-3, plx. xi
figs. 1-2, pl. xii, text-fig. 11.

CHIASMODONTIDAE.

Myersiscus gen. n. p. 361, *obtusifrons*
sp. n. Celebes p. 362 figs. 112-113,
FOWLER Proc. Acad. N.S. Philad. 85.

Pseudoscopelus microps Celebes p. 359
fig. 110, *cephalus* Philippines p. 361 fig.
111 spp. n., FOWLER t.c.

TEUTHIDOIDEA.

TEUTHIDIDAE.

Hepatus coccinatus sp. n. Zanzibar,
von BONDE Ann. Natal Mus. 7 p. 449
pl. xxiii fig. 3.

SIGANOIDEA.

SIGANIDAE.

Siganus laquens sp. n. Zanzibar, von
BONDE Ann. Natal Mus. 7 p. 451 pl. xxiii
fig. 4.

TRICHIUROIDEA.

GEMPYLIDAE.

†*Eothyrsites* gen. n., *holosquamaeus*
sp. n. Eocene New Zealand, CHAPMAN
Trans. Proc. Roy. Soc. N.Z. 64 p. 119
pl. xiii fig. 2 pl. xiv figs. 3-5.

SCOMBROIDEA.

SCOMBRIDAE.

Acanthocybium solandri, HARDEN-
BERG 330.

†*Auxis caucasica* sp. n. Tertiary
Caucasus, BOGAŖEW (see Weiler, N.
Jahrb. Min. Geol. Paläont. Stutt-
gart Ref. III (5) p. 822).

†*Cybium lingulatum* figd., WEILER
827.

Germo alalunga food, bionomics etc.,
LEGENDRE 459.

Parathunnus rosengarteni sp. n.
Florida, FOWLER Proc. Acad. N.S.
Philad. 86 p. 354 figs. 3-5.

†*Scomber voitestii* figd., WEILER 827.

Scomberomorus lineolatus, FOWLER
254 p. 415 fig. 7.

GOBIOIDEA.

Systematic position of Hamilton's
spp. from the Ganges, HORA 378;
Chinese spp., WANG 821.

ELEOTRIDAE.

Asterropteryx eumeces sp. n. Hawaii,
PIETSCHMANN Anz. Akad. Wiss. Wien.
71 p. 100.

Callielectris gen. n. p. 155, *platy-*
cephalus sp. n. Siam p. 156 figs. 123, 124,
FOWLER Proc. Acad. N.S. Philad. 86.

Gobiomorphus hypselopteryx p. 43,
robustus p. 44 spp. n. Hawaii, PIETSCH-
MANN Zool. Anz. 108.

Leioelectris gen. n., *zonatus* sp. n.
Zululand, Natal, FOWLER Proc. Acad.
N.S. Philad. 86 p. 494 fig. 48.

Odontobutis wui sp. n. China, CHEN Bull. Mus. Hist. nat. Paris 6 p. 36 fig. 1.

GOBIIDAE.

Revision of Black Sea spp., BORCEA 67.

Acanthogobius stigmothonus, HERRE 352.

Boleophthalmus taylori p. 159 fig. 128, *smithi* p. 160 fig. 129 spp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86.

Cryptocentrus cingulatus sp. n. S.E. China, HERRE Lingnan Sci. J. 13 p. 291.

Ctenogobius calamianensis p. 83, *culionensis* p. 84, *nuchipunctatus* p. 85 spp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934); *C. lini* sp. n. S.E. China, HERRE Lingnan Sci. J. 13 p. 289; *C. minus*, HORA 378.

Glossogobius tenuiformis sp. n. Zululand, Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 496 fig. 49; *G. vomer* = *G. suppositus*, WHITLEY 836.

Gobiodonella gen. n., *macrops* sp. n. Japan, LINDBERG C.R. Acad. Sci. U.R.S.S. 2 p. 440.

Gobiopterus chuno, HORA 378.

Gobiosoma pallida sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 91.

Gobius atripinnis sp. n. Bali, FOWLER Proc. Acad. N.S. Philad. 86 p. 81 figs. 21-22; *G. infaustus* = *G. bassensis* = *Arenigobius bifrenatus bassensis*, WHITLEY 836.

Gymnogobius raninus sp. n. Siberia, TARANEC C.R. Acad. Sci. U.S.S.R. 3 p. 398.

Lizagobius olorum, WHITLEY 836.

Microgobius thalassinus and *M. gulosus* compared, GINSBURG 283.

Myersina gen. n., *macrostoma* sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 89.

Rhinogobius fukushimai p. 55 pl. xxi fig. 2, *aestivaregia* p. 56 pl. xxi fig. 3 spp. n. Jehol, MORI Rep. First Sci. Exped. Manchoukuo (V) 1; *R. chieng-maiensis* sp. n. Siam, FOWLER t.c. p. 157 fig. 126; *R. melanobranchus* sp. n. Bali, FOWLER t.c. p. 82 figs. 24-25; *R. robinsoni* sp. n. Natal, FOWLER Ann. Natal Mus. 7 p. 428 fig. 13.

Smilogobius gen. n. p. 88, *inexplicatus* p. 88, *obliquus* p. 89 spp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934).

Syrrhodon gen. n. p. 171, *charrieri* sp. n. Morocco p. 172 figs., CHABANAUD Bull. Soc. Sci. nat. Maroc. 13 1933.

Vaimosa siamensis sp. n. Siam, FOWLER t.c. p. 157 fig. 125; *V. umbra* sp. n. Bali, FOWLER t.c. p. 84 fig. 26.

CALLIONYMOIDEA.

CALLIONYMIDAE.

Callimucenus gen. n. type *Callionymus macdonaldi*, WHITLEY Suppl. checklist. fish. N.S. Wales (McCulloch) 3rd ed. No. 398.

Callionymus fimbriatus sp. n. Philippines p. 94, *enneactis* descr. p. 93, HERRE Fish. Herre Philipp. Exped. 1931 (1934).

Veslionymus gen. n. type *Callionymus limiceps*, WHITLEY t.c. No. 418.

BLENNIOIDEA.

BLENNIIDAE.

Acanthemblemaria variegata = *A. arborescens* = *A. spinosa*, LONGLEY 483.

Blennius Black Sea spp., *B. ponticus* sp. n. Black Sea, SLASTENENKO Publ. Staz. zool. Napoli 14 p. 102 fig. 4; *B. knipowitschi* sp. n. Black Sea, SLASTENENKO C.R. Acad. Sci. Leningrad 1 p. 358 1 fig.; *B. sculleyi*, FOWLER 254 p. 431 fig. 14; *B. ocellaris*, LEGENDRE 459.

Cirripectes indrambaryae sp. n. Siam, SMITH J. Siam Soc. 9 p. 322.

Encelyurus analis sp. n. Siam, SMITH t.c. p. 318 pl. xiii.

Entomacrodus decoratus = *E. nigricans* = *Salariichthys textilis*, LONGLEY 483.

Ophioblennius ferox = *O. webbi*, LONGLEY 483.

Petroscirtis lini sp. n. S.E. China p. 292, *P. dispar* descr. p. 294, HERRE Lingnan Sci. J. 13; *P. masyae* sp. n. Siam, SMITH t.c. p. 316; *P. loxias*, *polyodon*, HERRE 351 p. 98.

Salarias colei sp. n. p. 96, *S. periophthalmus visayanus* subsp. n. p. 97 Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934); *S. siamensis* sp. n. Siam, SMITH t.c. p. 320 pl. xiv.

Somersia gen. n., *furcata* sp. n. Bermuda, BEEBE & TEE-VAN Amer. Mus. Novit 730 p. 1 fig. 1.

CLINIDAE.

Auchenopterus affinis = *A. nigripinnis*, LONGLEY 483.

Labrisomus guppyi = *L. heilneri* = *L. bucciferus* = ? *L. gobio*, LONGLEY 483.

Malacotenus biguttatus = *M. gillii*, LONGLEY 483.

Parachinus chaperi = *Auchenopterus fasciatus*, LONGLEY 483.

ZOARCIDAE.

Petroschmidtia gen. n., *albonotata* sp. n. Sea of Okhotsk, TARANEC C.R. Acad. Sci. U.R.S.S. 2 p. 510 figs. 1-2.

OPHIDIIOIDEA.

BROTULIDAE.

Barathronus parafaiti, LEGENDRE 459.

Bathystorereus gen. n. type *Benthocometes claudei*, RIVERO Mem. Soc. cubana Hist. nat. 8 p. 69.

Bidenichthys gen. n. p. 232, *capensis* sp. n. S. Africa p. 234 fig. 3, BARNARD Ann. Mag. Nat. Hist. 13.

Brotulotaenia crassa sp. n. Caribbean Sea p. 37 fig. 12, *B. nigra* fig., PARR Bull. Bingham Ocean. Coll. 4 (6).

Grammonus opisthodon sp. n. S. Africa, SMITH Trans. R. Soc. S. Afr. 22 p. 92 pl. vi B.

OPHIDIIDAE.

†*Otolithus* (*Ophidiidarum*) *planus* p. 444 pl. xii fig. 6, *sagittalis* p. 444 pl. xii fig. 7, *symmetricus* p. 444 pl. xii fig. 8, *sheppeyensis* p. 444 pl. xii figs. 9-11, *rugosus* p. 445 pl. xii fig. 16, *elegans* p. 446 pl. xii fig. 19 spp. n., *waltoni*, *hilgendorfi* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 14; *O. (Ophidium) biscaicum*, *biarritzense* figd., FROST 263.

Otophidium smithi sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 508 fig. 52.

FIERASFERIDAE.

Fierasfer mourlani sp. n. Madagascar, PETIT Bull. Mus. Hist. nat. Paris 6 p. 393 fig. 1.

STROMATEOIDEA.

STROMATEIDAE.

Cubiceps longimanus sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 442 fig. 23.

Pampus simoprosopus sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 150 fig. 118.

Papyrichthys gen. n. type *Psenes pellucidus* descr. and fig. from S. Africa, SMITH Trans. R. Soc. S. Afr. 22 p. 93 pl. vi A.

Psenes guttatus sp. n. Natal, FOWLER t.c. p. 442 fig. 24.

Schedophilus medusophagus from S. Africa, SMITH t.c. p. 95 pl. v C.

TETRAGONURIDAE.

Tetragonurus atlanticus, LEGENDRE 459.

OPHIOCEPHALOIDEA.

OPHIOCEPHALIDAE.

Ophicephalus gachua pelvic fins, HORA & MUKERJI 384.

ANABANTOIDEA.

ANABANTIDAE.

Betta ocellata sp. n. Borneo, BEAUFORT Bull. Raffles Mus. 8 1933 p. 35.

Descharensella gen. n., *chryseus* sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 147 fig. 117.

†*Osphronemus goramy* figd., SANDERS 669.

Trichopsis harrisi sp. n. Siam, FOWLER Proc. Acad. N.S. Philad. 86 p. 348 figs. 11, 12.

MUGILOIDEA.

MUGILIDAE.

Notes on Black Sea spp., BORCEA 69.

†*Mugil minax, chaarini* spp. n., *M. radobojanus gracilicosta* var. n. Tertiary Caucasus, BOGAČEW (see Weiler, N. Jahrb. Min. Geol. Paläont. Stuttgart Ref. III (5) p. 822).

SPHYRAENIDAE.

†*Otolithus (Sphyraena) oblongus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 431 pl. xv fig. 18.

ATHERINIDAE.

Atherinason gen. n. type *Atherina dannevigii*, WHITLEY Vict. Nat. 50 p. 242.

Craterocephalus randi sp. n. New Guinea, NICHOLS & RAVEN Amer. Mus. Nov. 755 p. 3 fig. 3.

Pranesella gen. n., *endorae* sp. n. Victoria, WHITLEY t.c. p. 241 fig.

Rhambatractus archboldi sp. n. New Guinea, NICHOLS & RAVEN t.c. p. 1 figs. 1, 2.

POLYNEMOIDEA.

POLYNEMIDAE.

Eleutheronema tridactylum, HARDENBERG 329.

Polynemus longipectoralis, HARDENBERG 329; *P. pfeifferi*, HARDENBERG 330.

SCLEROPAREI.

†*Otolithus* (incert. sed.) *densus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 432 pl. xv fig. 20.

SCORPAENIDAE.

Eastern Atlantic spp., LEGENDRE 459 p. 399.

†*Otolithus (Scorpaenidarum) acutus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 432 pl. xv fig. 19.

Scorpaena fowleri sp. n. Hawaii, PIETSCHMANN Anz. Akad. Wiss. Wien 71 p. 99.

Sebastodes revision of subgen. *Sebastosomus*, *Auctospina*, *Pteropodus*; *S. columbianus* Washington p. 24 pl. i fig. 3, *litoris* California p. 31 pl. ii fig. 3 spp. n.; HUBBS & SCHULTZ Univ. Wash. Publ. Biol. 2 1933.

Setarches guentheri, SMITH 726.

TRIGLIDAE.

Of S. Africa, SMITH Trans. R. Soc. S. Afr. 22 p. 321; Black Sea spp., NEKRASSOFF 551.

Lepidotrigla key to S. African spp. p. 322, *L. multispinosa* sp. n. Natal (?) p. 326 pls. xvii, xx, SMITH t.c.; *L. stigmatipteron* sp. n. Natal, FOWLER Proc. Acad. N.S. Philad. 86 p. 487 fig. 46.

†*Otolithus (Trigla) ovatus* sp. n. p. 443 pl. xii fig. 3, *mirabilis, rhombicus* figd., Eocene England, FROST Ann. Mag. Nat. Hist. 14.

Peristedion weberi sp. n. S. Africa p. 329 pl. xxi, *adeni* descr. and fig. p. 331 pl. xxii, SMITH t.c.; *P. bartschi* sp. n. W. Indies, MYERS Smithson. Misc. Coll. 91 p. 10 text-fig. 2.

Trigla gurnardus, LEGENDRE 459.

Trigloporus subgen. n. (of *Trigla*) type *Trigla africana* sp. n. S. Africa, SMITH t.c. p. 333 pl. xxiii.

PLATYCEPHALIDAE.

Sorsogona gen. n., *serrulata* sp. n. Philippines, HERRE Fish. Herre Philipp. Exped. 1931 (1934) p. 67.

COTTIDAE.

Cottus quadricornis figd., LÖNNBERG 487.

Hemilepidotus notes, SCHULTZ & WELANDER 703.

Ulca bolini nom. n. (for *U. marmorata* (Bean)), MYERS Copeia 1934 p. 44.

AGONIDAE.

†*Otolithus (Agonus) eocenicus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 13 p. 433 pl. xv fig. 21.

LIPARIDAE.

Careproctus scottae sp. n. Alaska, CHAPMAN & DE LACY J. Pan-Pacif. Res. Inst. 9 (2) p. 2.

Elephantichthys gen. n., *copeianus* sp. n. Alaska, HUBBS & SCHULTZ Copeia 1934 p. 21 figs. 1-3.

GASTEROSTEIDAE.

Gladiunculus = *Gasterosteus*, BERTIN 53.

AULORHYNCHIDAE.

†*Protosyngnathus sumatrensis* figd., SANDERS 669.

HYPOSTOMIDES.

PEGASIDAE.

Pegasus draconis, FOWLER 254 p. 412 fig. 6.

HETEROSOMATA.

Monographed by, NORMAN 563;
CHABANAUD 128.

BOTHIDAE.

Chinese spp., FOWLER 252.

Arnoglossus maculipinnis sp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85 p. 329 fig. 84; *A. imperialis*, LEGENDRE 459.

Bothus brunneus Philippines p. 331 fig. 85, *confertus* China Sea p. 332 fig. 86, *obliquiocularis* Philippines p. 332 fig. 87, *tchangii* Philippines p. 334 fig. 88, *variegatus* Philippines p. 335 fig. 89 spp. n., FOWLER t.c.

Brachypleurops gen. n., *axillaris* sp. n. Philippines, FOWLER t.c. p. 341 fig. 95.

Crossobothus subgen. n. (of *Bothus*) type *Bothus variegatus*, FOWLER t.c. p. 335.

Laeops clarus p. 337 fig. 90, *cypho* fig. 337 fig. 91, *gracilis* p. 338 fig. 92 spp. n., FOWLER t.c.

Leptolaeops subgen. n. (of *Laeops*) type *Laeops clarus*, FOWLER t.c. p. 335.

†*Otolithus* (*Bothus*) *contortus* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 14 p. 502 pl. xiv fig. 8.

Paralichthys brasiliensis, *bicyclophorus*, MACDONAGH 494.

Pseudorhombus megalops sp. n. Philippines, FOWLER t.c. p. 329 fig. 83; *P. jennynsii dubius* var. n. Queensland, NORMAN Syst. Monogr. Heterosomata 1 p. 116 fig. 73; *P. guttulatus* descr. and fig., WHITLEY 836.

PLEURONECTIDAE.

Nematops chui sp. n. China Sea, FOWLER Proc. Acad. N.S. Philad. 85 p. 338 fig. 93.

†*Otolithus* (*Pleuronectidarum*) *tenuis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 14 p. 502 pl. xiv fig. 10.

Poecilopsetta megalepis sp. n. Philippines, FOWLER t.c. p. 340 fig. 94; *P. albomarginata* sp. n. Tobago, REID Smithson. Misc. Coll. 91 (15) p. 10 pl. i.

Samariscus luzonensis, *macrognathus* p. 343 figs. 96–97 Philippines, *fasciatus* p. 344 fig. 98 China Sea spp. n., FOWLER t.c.

SOLEIDAE.

Aesopia revision of spp., CHABANAUD 133.

Barbourichthys gen. n., *zanzibaricus* sp. n. Zanzibar, CHABANAUD Bull. Soc. zool. Fr. 58 p. 388.

Brachirus annularis p. 346 fig. 99 China Sea, *megalepidoura* p. 347 fig. 100 Philippines spp. n., FOWLER Proc. Acad. N.S. Philad. 85.

Coryphaesopia revision of spp., *C. cornuta barnadi* subsp. n. S. Africa, CHABANAUD Bull. Soc. zool. Fr. 59 p. 430.

Dexillus macrolepis, HARDENBERG 330.

†*Otolithus* (*Solea*) *bartonensis* sp. n. Eocene England, FROST Ann. Mag. Nat. Hist. 14 p. 503 pl. xiv fig. 11.

Phyllichthys revision of spp., CHABANAUD 133.

Pseudaesopia subgen. n. (of *Zebrias*) type *Synaptura regani*, CHABANAUD Bull. Soc. zool. Fr. 59 p. 433.

Synaptura lusitanica, CHABANAUD 136.

Zebrias revision of spp., CHABANAUD 133.

CYNOGLOSSIDAE.

Of China, FOWLER 253.

Cynoglossus suyeni sp. n. China Sea, FOWLER Proc. Acad. N.S. Philad. 85 p. 347 fig. 101.

Symphurus marmoratus sp. n. Philippines, FOWLER t.c. p. 349 fig. 102.

PLECTOGNATHI.

TRIACANTHIDAE.

Halimochirurgus triacanthus p. 365 fig. 116, *macraulos* p. 367 fig. 117 spp. n. Philippines, FOWLER Proc. Acad. N.S. Philad. 85.

Johnsonina gen. n., *erionma* sp. n.
W. Indies, MYERS Smithson. Misc. Coll.
91 p. 5 pl. i fig. 1.

Macrorhamphosodes gen. n. p. 364,
platycheilus sp. n. Philippines p. 365
fig. 115, FOWLER t.c.

Paratriacanthodes gen. n. p. 362,
retrospinis sp. n. China Sea p. 364 fig.
114, FOWLER t.c.

BALISTIDAE.

Davidia punctata Ribeiro = *Alutera*
punctata Jord. & Everm. = ? *A. punctata*
Agassiz = *A. schoepfi* (Walbaum),
juv., LONGLEY 483.

Monacanthus spilonotus = *M. hispidus*,
M. amphioxys = *Cantherines pul-*
lus, LONGLEY 483.

OSTRACIANTIDAE.

Ostracion adersi p. 456 pl. xxiii fig. 8,
chwakaensis p. 457 pl. xxiii fig. 9 spp. n.
Zanzibar, VON BONDE Ann. Natal Mus.
7.

PEDICULATI.

CERATIOIDEA.

Bathyceratias gen. n., *trilychnus* sp. n.
Bermuda, BEEBE Bull. N.Y. Zool. Soc.
37 p. 191 fig.

Borophryne masculina sp. n. Carib-
bean Sea, PARR Bull. Bingham Ocean.
Coll. 4 (6) p. 56 fig. 21.

Dolopichthys thompsoni sp. n. Alaska,
SCHULTZ Copeia 1934 p. 66 figs. 1-4.

Linophryne synopsis of spp. p. 42,
L. coronata diphlegma subsp. n. Carib-
bean Sea p. 54 fig. 19, PARR t.c.

Trematorhynchus phyllodon sp. n.
Caribbean Sea, PARR t. c. p. 40 fig. 13.

SYMBRANCHII.

SYMBRANCHIDAE.

Macrotrema caligans, HARDENBERG
329.

CROSSOPTERYGII.

General, HOLLY 372.

†*Hamodus* gen. n., *lutkevitchi* sp. n.
Devonian U.S.S.R., OBRUCHEV Mater.
Centr. Sci. Geol. Prosp. Inst. Palaeont.
Stratigr. 1 1933 p. 13 pl. i fig. 6.

†ACTINISTIA.

†COELACANTHIDAE.

†*Coelacanthus newarki* sp. n. Triassic
U.S.A., BRYANT Proc. Amer. Phil. Soc.
Philad. 73 p. 323 pls. v-viii; *C. newelli*
p. 280 pl. xxvii figs. 2-3, *arcuatus* p. 282
pl. xxvi fig. 8, pl. xxvii fig. 1 spp. n.
Carboniferous U.S.A., HIBBARD Kansas
Univ. Sci. Bull. 21.

DIPNEUSTI.

†*Dipterus crassus* figd., GROSS 309.

†*Epiceratodus denticulatus* sp. n.
Oligocene Australia, HILLS Mem. Qd.
Mus. 10 (4) p. 157 text-figs. 1-2.

INCERTAE SEDIS.

CONODONTS.

†*Gnathodus integer* sp. n. Palaeozoic
Germany, SCHMIDT Palaeont. Z. Berlin
16 p. 82 pl. vi figs. 1-4 text-figs. 1-8.

XIV. AMPHIBIA AND REPTILIA.

ARRANGED BY

MALCOLM A. SMITH, M.R.C.S.

CONTENTS.

| | PAGE |
|-----------------------------|------|
| I. TITLES | 2 |
| II. SUBJECT INDEX | 24 |
| III. PALÆONTOLOGY | 29 |
| IV. SYSTEMATIC INDEX | 29 |

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II.—SUBJECT INDEX.

COMPREHENSIVE AND GENERAL.

General Works, Text Books.—A text-book of vertebrate zoology, ADAMS, 3.
—Popular account of reptiles, DITMARS, 130.

Myths, Folk-lore.—Vipers swallowing their young, HENDY, 212; SETH-SMITH 434. — Crocodiles, DORNAN, 136; LAVAUDEN, 275.—Loch Ness Monster, GOULD, 187.

Bibliography.—Pallas, SHERBORN, 439.—Crocodiles, MOOK & BORKER, 327. — Ichthyosauria, Thecodontia, KUHN, 238.

Obituary.—Baron Fénévay, VERSLUYS, 497.

Economics.—Amphibian food, COTT, 111.—*Hyla*, COTT, 110.—Toads and insect pests, ANON, 18.—*Ambystoma* as fish-bait, SLATER, 441.

Technique.—Terrarium, ROLLINAT, 398.—Terrarium, BARNETT, 33.—Sexing living snakes, SCHAEFER, 411.—Incubating snakes eggs, feeding young vipers, BARNETT, 32.—Demonstration of nervous system by means of nitric acid, CORNWELL, 106.—Preserving amphibia in gelatine, GORDON, 185.—Examination for spermatozoa in snakes, GLOYD, 181.—Trapping lizards, BABCOCK, 22.—Catching crocodiles, SUBRAHMANYAM, 470. — Handling poisonous snakes, ELLIOT, 119.

Nomenclature. — KREJCI, 234.—DUNN, 140.—Terminology of types, FRIZZELL, 136.—*Triturus cristatus* v. *palustris*, MULL. & MERT., 336.

Evolution and Classification.—HENNING, 213.—HOLMGREN, 228.—Crocodilia MOOK, 325.—Influence of creeping habits on organs and number of vertebrae, MARCUS, 306.

Disease and parasites.—HAMERTON, 199, 220.—SCHMID, 415.—PIRLOT & WELSCH, *Rana*, 377.—Seasonal variation of parasites in Amphibia, HÖLL, 227.—Mouth-disease in snakes, REINHARD, 393.—Dinosaurs, SWINTON, 471.

Teratology.—B. CUNNINGHAM, 113.—*Rana*, GROVE & NEWELL, 194.

Sex-dimorphism.—Amphibia, LIU, 285.—Cilia of body-cavity of *Rana* a female character, DONAHUE, 133.

Vocal Sacs.—Various types of in male Salientia, LIU, 285.

Variation.—*Liolaemus*, HELLMICH, 211.

Albinism.—*Pleurodeles*, SCHREITMÜLLER, 419.

Melanism.—MERTENS, 321.—Lizards, Snakes, MÜLLER, 333.—*Thamnophis*, HART, 233.

Hybridization.—Records of *Triturus* hybrids, LANTZ, 272.—Experimental with amphibians, ROSTAND, 400.—Experimental with *Rana*, DÜRKEN, 142.

Hermaphroditism.—*Rana*, KREMER, 235.

Neoteny—influence of temperature, FOSI 159.—*Microbatrachella*, DE VILLIERS, 502.

Size and Growth.—Rate of growth in reptiles, LE SOUEF 282.—*Bufo*, HAMILTON, 201.—Alligator, McILHENNY, 301.—Gigantism in *Bufo*, BORING & LIU, 57.

Autotomy.—In lizards tails, BRESSLAU, 64.

Regeneration, Healing.—Shell of Cheilonsians, LEHMENSICK, 281.

Hibernation.—Of Tadpoles of *Rana temporaria*, OLDHAM, 350.—Frogs in winter, WIEDEMANN, 518; Thyroid influence, EGGERT, 148.

Acclimatization.—*Clemmys leprosa*, *Hyla arborea* and *Alytes obstetricans* in England, ROPE, 399.

Adaptation.—Of amphibians and reptiles to hot water, STROUHAL, 465.—*Bufo* to salt water, SHAW, 438.—Of *Crotalus* in hibernation, BURGER, 72.—*Natrix natrix* found in the sea, LEGENDRE, 279.—*Enhydryna schistosa* in the Grand Lac, Cambodia, vii, BOURET 60.

Protective adaptation—RIDLEY, 396.—COTT, 111.—*Diplodactylus spinigerus*, BOURNE, 59.

Locomotion.—Correlation between leg-length and leaping powers of Amphibia, WERMEL, 512.

Longevity.—Slow-worm living for 32 years, DIXON, 132.

Intelligence.—Memory in Chelonians, FISCHER, 155.—Lizards, NOBLE, 341.

Enemies and Extermination.—Galapagos Is., PARKER, 354.—Dinosaurs, SWINTON, 471.—Frigate birds devouring newly hatched turtles, RICKS, 395.

Various.—Bacteria as food for *Rana* tadpoles, BURKE, 73.—Mechanism of adhesion of suctorial disc of *Rana* tadpole, HORA, 230.—Shooting crocodiles, LAVAUDEN, 276.—Chameleons killed by nicotine, COTT, 108.

MORPHOLOGY.

General.—*Salamandra*, FRANCIS, 162.—*Microbatrachella*, VILLIERS, 502.—*Dermochelys*, HELDT, 208.—Microhylidae, PARKER, 355.—Engystomatidae, RAMASWAMI, 388.—Cranial characters of *Rhacophorus* and *Philautus*, RAMASWAMI, 387.

Osteology.—Evolution of vertebral column, GADOW, 168.—Reptiles, MATYAS, 310.—*Liopelma*, D. S. WAGNER, 503.—*Ascapus*, DE VILLIERS, 501.—*Rhombophryne*, DE VILLIERS, 499.—*Pelusios*, CHABANAUD, 89.—Cranium, *Crinia*, DU TOIT, 485.—Skull, EATON, 144.—Skull, *Triturus*, HERRE, 215.—Histology of Dinosaur bones, NOPCSA, 343.

Teeth.—Snakes, M. A. SMITH, 451.

Muscles.—HAINES, 196.—Snakes, LIZARDS, HAAS, 195.—Caudata, HOFBAUER, 225.—Linea masculina in frogs, LIU, 285.

Circulation.—Testudines, W. KOCH, 256.—Snakes, ACOLAT, 2.—Anura, PISCHINGER, 378.—*Ptyas*, RAY, 390.—Brain, HERRICK, 217.—Abnormalities, BHADURI, 41.—Blood, *Triton*, HARZ, 205.

Lymphatics.—*Ambystoma*, GAJEWSKA, 172.—Amphibia, RAO, 389.

Nervous system.—ARIENS-KAPPERS, 20.—KUROTSU, 271.—HALLER V. HALLESTEIN, 197.—CEHOVSCHI, 85.—HIRT, 223.—STEFANELLI, 455.—Brain, ABBIE, 1.—Brain, HERRICK, 218, 219.—

Brain of reptiles, DART, 117.—Brain of *Lacerta*, GOLDBY, 184.—*Salamandra*, SCHNASS, 417.—Python, TIEGS, 484.—Chameleon, SHANKLIN, 435.

Respiration.—Testudines, W. KOCH, 256.

Urogenital system.—M. KOCH, 255.—TONUTTI, 487.—Kidney, W. B. STEEN, 454.—Bidder's organ, *Bufo*, CAMPO, 79.—*Ascapus*, DE VILLIERS, 500.—Cloaca, *Lacerta*, REGAMEY, 392.—Mullerian duct, GRIFFIN & WU, 192.—Post-anal bones and sacs in geckoes, BRONGERSMA, 68.

Glands.—SCHARRER, 412, 413.—*Hynobius*, SATO, 406.—*Uraeotyphlus*, FAHRENHOLZ, 152.—Suprarenals, RADU, 386.—Suprarenals, BIRKELBACK, 44.—Cutaneous glands of male Salientia, LIU, 285.—Inguinal organs in *Rana* tadpoles, FRIEDEL, 164.

Integument.—Gymnophiona, MARCUS, 305.—*Hynobius*, SATO, 406.

Mouth Parts.—Lip-folds of Caudata, MATTHES, 308.

Tongue.—Lacertilia, RICHTER, 394.

Abdominal Cavity.—Cilia of peritoneum in *Rana*, DONAHUE, 133.

Eye.—LÄSKER, 274.—FRANZ, 163.—KÖNIG, 259.—Amphibia, POPOFF, 381.—*Ambystoma*, JONOVA, 241.—Snakes, VERRIER, 495.—*Retina*, MOROFF, 330.—*Retina*, WALLS, 508.—Eye covering of reptiles, WALLS, 507.

Ear.—BURLET, 74.—SCHWARZ, 421.—*Liopelma*, D. S. WAGNER, 504.

Nose.—MATTHES, 307.—*Triton*, SCHUCH, 420.—Jacobson's organ, FÖRSKE, 160.—Jacobson's Organ in snakes, KAHMANN, 243.

Digital Pad.—Of Geckoes, DELLIT, 120.

DEVELOPMENT.

AMPHIBIA.

ADELMANN & MACLEAN, 4.—CARRICK, 81.—HAMACHER, 198.—HELEFF, 209.—SCHECHTMAN, 414.—SCHNEIDER, 418.—J. WAGNER, 505.—Chorda dorsalis, GIARDINA, 177.—Vertebral column,

MOOKERJEE, 328.—Shoulder-girdle, FUCHS, 167.—Muscle, KATZNELSON, 245.—Alimentary tract, JANES, 238.—Integument, MARCUS, 305.—Thymus, WEBSTER, 510.—Corpus luteum, CUNNING. & SMART, 114.—Blood-vessels, FISCHINGER, 378.—Blood, DAWSON, 118.—Blood, KOMOCHI, 257, 258.—Eye, POPOFF, 381.—Eye, BRÖER & UBISCH, 65.—Eye, WOERDEMAN, 524.—Ear of *Bufo*, ECKE, 145.—*Ambystoma*, BAKER, 26.—*Triton*, KLEINSCHMIDT, 252.—*Xenopus*, PETER, 367.—*Bufo*, BOUNOURE, 58.—*Kaloula*, LI, 283.

REPTILIA.

EGGERT, 146, 147.—PETER, 365.—Vertebral column, MOOKERJEE, 328.—Testis, RISLEY, 397.—Spleen, EVANS, 151.—Snakes, MOOK. & MUKHERJEE, 329.—Lizards, PETER, 364.—Chameleon, PETER, 366.

PHYSIOLOGY.

Sex and Heredity.—Amphibia, WITSCHI, 521.—*Ambystoma*, CLANTON, 98.—*Rana*, CHENG, 96.—Golgi bodies, IYER, 237.—*Lacerta*, OGUMA, 345.—*Lacerta vivipara*, MATTHEY, 309.—Chromosomes, DEARING, 119.—Chromosomes of *Rana*, SATO, 407.—Chromosomes of *Hynobius*, MAKINO, 304.

Circulation.—Snakes, ACOLAT, 2.

Respiration.—In *Rana* tadpole, HORA 230.—Chelonians, BERTRAND, 40.—Skin respiration in *Hynobius*, GOTO, 186.

Special Senses.—Vision of reptiles, VERRIER, 496.—Vision in reptiles, KAHMANN, 242.—Smell, *Triton*, SCHUCH 420.—Lateral line organs in *Triton*, KONZUKOVA, 260.

Colour and Colour Changes.—GIERSBERG, 178.—Amphibia, DUSHANE, 143.—Chameleon, ZOOND & EYRE, 533.

Skin.—*Rana*, GRAETZ, 188.

Biochemistry.—Blood of Chelonians, VARS, 491.

Experimental.—Induction of ovulation, SHAP. & ZWAREN., 436.

VENOM.

SNAKES.

General.—Snake bite, FAIRLEY, 153.—Effects of bee-stings on Reptiles and Amphibians, PHISALIX, 371, 372, 373, 374.

(PROTEROGLYPHA.)

Effects, Properties, etc.—Haemostatic properties, BARNETT & MACFAR., 34.—*Denisonia*, KELLAWAY, 246.—*Vipera*, CHOPRA & CHOWHAN, 97.—*Vipera russelli*, MACFAR. & BARNETT, 300.—*Agkistrodon*, GLOYD, 180, 181.—

Experimental.—PHISALIX & URBAIN, 375.—KELLAWAY, 247.—VELLARD, 492.—VELLARD & VIANNA, 493.—VENK. & RATNAG., 494.—HOLDEN, 226.

(OPISTHOGLYPHA.)

Venom apparatus of Opisthoglypha, RADOVANOVIC, 385.—*Stilosoma*, CARR, 80.—*Dryophis*, MCCANN, 298.

AMPHIBIA.

Bufo, JENSEN & EVANS, 239.—*Salamandra*, FRANCIS, 162.—*Triturus* susceptible to its own glandular secretion, A. TAYLOR, 477.

ETHOLOGY.

HABITS, BREEDING, FIELD NOTES, ETC.

Amphibians and Reptiles.—BARBOUR, 28.—BROOKING, 69.—ROLLINAT, 398.—HEDIGER, 207.—CAMPBELL, 78.—Kentucky species, BAILEY, 24.

Amphibians.—COTT, 111.—HOLL, 227.—TANNER, 476.—Kansas Amphibia, H. M. SMITH, 444.—*Ichthyophis*, SESH. & IYER, 433.—*Ambystoma*, KUMPF, 269.—*Triturus*, ARMISHAW, 21.—*Triturus*, GERLACH, 174.—*Hemidactylum*, BLANCHARD, 47, 48, 49.—*Salamandra*, FRANCIS, 162.—*Plethodon*, HOOD, 229.—*Bufo*, FRIESE, 165.—*Bufo*, SHAW, 438.—*Bufo*, MAYNARD, 311.—*Hyla*, COTT, 110.—*Rhinoderma*, PFLAUMER, 369.—Microhylidae, PARKER, 355.—*Kaloula*, LI, 283.—*Rana*, *Bufo*, SAVAGE, 409, 410.—*Rana*, HORA, 230.—*Rhacophorus*, BHADURI, 42.—*Eleutherodactylus*, COCHRAN, 101.

Reptiles.—DITMARS, 130.—WUNDER, 531.

Crocodylians.—*Crocodylus*, APPELMAN, 19.—*Crocodylus*, DERANIYAGALA, 127.—*Crocodylus*, LAUDAUDEN, 276.—*Alligator*, KUENTZ, 267.—*Alligator*, McILHENNY, 301.

Chelonians.—*Dermochelys*, HELDT, 208.—*Callagur*, MEER MOHR, 312.—Courtship of Chelonians, TAYLOR, 479.

Lizards.—COTT, 108.—KNOWL. & JANES, 254.—Food of Lizards, VILLADOLID, 498.—Western U.S.A. species, BURT, 77.—Bahaman Lizards, BREDER, 63.—*Coleonyx*, DERBONNE, 128.—*Agama*, KUNTZE, 270.—*Uromastix*, POPP, 382.—*Phrynocephalus*, LICENT, 284.—*Iguana*, SENFFT, 432.—*Uta*, *Sceloporus*, KNOWL. & JANES, 253.—*Sceloporus*, NOBLE, 341.—Chameleon, PETER, 366.

Snakes.—E. African species, COTT, 109.—Hongkong species, HERKLOTS, 214.—*Python sebae* breeding at 5 years old, BARNETT, 32.—*Coluber*, *Elaphe*, LEDERER, 277, 278.—*Sonora*, STRECKER, 461.—*Stilosoma*, CARE, 80.—*Lampropeltis*, CONANT, 103.—*Masticophis taeniatus*, GLOYD & CONANT, 182.—*Doliophis*, NAIJA, HEURN, 221.—*Cobra*, ZYLWA, 534.—Sea Snakes, p. 43, W. P. LOW, 293.—*Causus*, WOODWARD, 529.—*Vipera berus*, LOTHERINGTON, 287.—*Vipera berus*, GALLWEY, 137.—*Akistrodon*, GLOYD, 181.—*Crotalus*, BURGER, 72.—*Crotalus*, PERKINS & LENTZ, 363.

ZOOGEOGRAPHY.

Zoological Distribution.—Distribution of faunas in southern hemispheres, WITTMANN, 523.—Early dispersal of Amphibia as shown by their parasites, METCALF, 322.—Island forms, MERTENS, 321.—Palaeartic region, BARTENEF, 35.—Malay Archipelago, MERTENS, 319.—East Indies, BRONGERSMA, 68.—Bismarck Archipelago, HEDIGER, 207.—Antilles, DUNN, 139.—S. Africa, POWER, 383.—Spain, LOPEZ, 286.—Hydrophiidae, MERTENS, 317.—Salamandridae, HERRE, 216.—Microhylidae, PARKER, 355.

PALAEARCTIC REGION.

Europe.—HECHT, 206.—England, COWARD, 112; ARMISHAW, 21; HARDCASTLE, 202; FOSTER, 161; DIXON, 132; GALLWEY, 173; E. E. LOWE,

292; LOTHERINGTON, 287; ROPE, 399; OLDHAM, 351; SAVAGE, 409, 410; PALMER, 352; WEST, 514.—France, BAUDOT & FLORENTIN, 37; LEGROS, 280; DURAND, 141; PARIS, 353; ROLLINAT, 398.—Germany, ERHARDT, 150; KRAMER, 263; MOHR, 324; WERN. & HERTER, 513; ZIMMERMANN, 532.—Denmark, MOHR, 323.—Spain, CYRÉN, 115; LOPEZ, 286; WOLTERSTORFF, 525.—Italy, DEPOLI, 121; WOLTERSTORFF, 526; TONTOSE, 488; MERTENS, 315; VACCANO, 490.—Russia, CERNOV, 86; PTUSHENKO, 384.—S. E. Europe, BURESCH & ZONKOW, 71.—Bulgaria, MÜLLER, 335.—Roumania, BĂCESCO, 23.—Grecian Is., MERTENS, 320; SCHWEIZER, 422.

Asia.—S. Western Asia, CERNOV, 87.—Turkestan, KASHKAROV, 224.—Kurdistan, LANTZ & SUCHOW, 273.—S. W. Tibet, Assam, M. A. SMITH, 450.—Manchuria, Mongolia, CERNOV, 88.—Siberia, KOSTIN, 262.—China; FANG, 154; BORING & LIU, 57; M. L. Y. CHANG, 91, 92, 93, 94; T. K. CHANG, 95; LI, 283; LICENT, 284; PAYLOV, 361; REEVES, 391; PEN & HO, 362; POPE, 379, 380; SHAW, 437, 438; TAYLOR, 480; TUNG, 489; PARKER 355.—Hongkong, BORING, 56; HERKLOTS, 214.—Korea, INUKAI, 235.

Formosa, Loo Choo Is.—Formosa, OKADA, 348; NAKAMURA, 338.—Loo Choo Is., GERLACH, 174.

Japan.—INUKAI & OKADA, 236; NAKAMURA, 337; OKADA, 346, 347, 349; SATO, 405, 408.

North Africa.—POPE, 382.—Libya, SCORTECCI, 424, 426.—Egypt, KUNTZE, 270.—Cirenaica, GESTRO & VIN., 175.—Tunis, HELDT, 208.—Macaronesia, CYRÉN, 115; COTT, 110.

ETHIOPIAN REGION.

Africa.—JOLEAUD, 240; FRIESE, 165; LAUDAUDEN, 276.—Somaliland, GESTRO & VINCIG., 176; SCORTECCI, 425, 427.—Abyssinia, ANGEL, 14.—Sahara, LAUDAUDEN, 275.—West Africa, MULLER, 331; MERTENS, 316.—Angola, SCHMIDT, 416.—Gold Coast,

WOODWARD, 529.—Congo, ANGEL, 15; DE WITTE, 522; SCHWETZ, 423; LOVERIDGE, 291.—East Africa, SCORTECCI, 428; COTT, 108, 109.—South Africa, AHL, 6; HEWITT, 222; NOYES, 344; POWER, 383; DU TOIT, 486; DE VILLIERS, 502; PARKER 355.

Madagascar.—ANGEL, 11, 12, 13, PARKER 355.

Seychelles Is.—AHL, 5.

St. Helena.—BARBOUR, 29

ORIENTAL REGION.

Indian Peninsula.—D'ABREU, 116; GREAVES, 190; McCANN, 297, 299; MERTENS, 318; SESH. & IYER, 433; SUBRAHMANYAM, 469, 470; WILLIAMS, 519; PARKER 355.

Ceylon.—DERANIYAGALA, 122, 126, 127; SMITH & DERAN., 452; ZYLWA, 534.

Indo-Chinese Subregion.—MERTENS, 318; PARKER 355; M. A. SMITH, 450.—Assam, BHADURI, 42; HORA, 230.—Yunnan, WOLTERSTORFF, 527.—Siam, TAYLOR, 482.—French Indo-China, BOURRET, 60.—Tonkin, ANGEL & BOURRET, 16.—Hainan, TAYLOR, 481.

Malaysia and East Indies.—Malay Peninsula, SWORDER, 473.—Malaya, MEER MOHR, 312; MERTENS, 319.—Java, APPELMAN, 19; HEURN, 220, 221.—East Indies, BRONGERSMA, 68; DITMARS, 129; GREGORY, 191; MERTENS, 313, 318.

AUSTRALIAN REGION AND POLYNESIA.

New Guinea Archipelago.—PARKER 355; BRONGERSMA 68; MERTENS 318.

Australia.—BOURNE, 59; HOWCHIN, 231; KELLAWAY, 246; LOVERIDGE, 288, 289; THOMSON, 483.

Tasmania.—LOVERIDGE, 290; SCOTT, 429.

Western Pacific Islands.—SLEVIN, 442.—Bismarck Archipelago, HEDIGER, 207.—Caroline Is., KISHIDA, 248.

NEARCTIC REGION.

(Including Mexico.)

Canada.—ANON, 17; BLACK, 46; PATCH, 360; WRIGHT & WRIGHT, 530.

United States.—BURT, 77; DITMARS, 131; KUENTZ, 267; H. M. SMITH, 448; STEJ. & BARBOUR, 458; WRIGHT & WRIGHT, 530.—New York, MAYNARD, 311; HOOD, 229.—New Jersey, BURGER, 72; NOBLE, 341.—Ohio, CONANT, 103, 104.—Michigan, BLANCHARD, 47, 48, 49; CLANTON, 98; CLAY, 99.—Montana, DONALDSON, 134.—Illinois, STEIN, 456.—Washington, SLATER, 441.—Oregon, BISHOP, 45; BROOKING, 69.—Virginia, WALKER, 506; Carolina, BRANDT & WALKER, 62.—Georgia, CARTER, 82.—Kentucky, BAILEY, 24; BURT, 76.—Tennessee, NECKER, 339.—Missouri, BOYER & HEINZE, 61.—Louisiana, McILHENNY, 301.—Arkansas, PERKINS & LENTZ, 363; H. M. SMITH, 445.—Kansas, BURT, 75; GLOYD, 181; H. M. SMITH, 444.—Oklahoma, SMITH & LEONARD, 449.—California, DERBONNE, 128; FISHER, 156; FITCH, 157; KLAUBER, 250, 251; McKEE & BOGERT, 302; WOOD, 528.—Utah, KNOWL. & JAMES, 253, 254; TANNER, 476.—Texas, GLOYD & CONANT, 182, 183; STREKER, 461.—Arizona, CAMPBELL, 78.

Mexico.—AHL, 7; BARBOUR, 27; FITCH, 158; KLAUBER, 249; H. M. SMITH, 446, 447, 448; TAYLOR, 478.

NEOTROPICAL REGION AND SOUTH AMERICA.

Central America.—BARBOUR, 27; DUNN, 138; PARKER 355.—Yucatan, HARTWEG, 204; STUART, 466.—Guatemala, GAIGE & STUART, 171; STUART, 467, 468.—Costa Rica, WETTSTEIN, 516.—Panama, DUNN, 137.

West Indies.—COCHRAN, 100, 101, 102; DUNN, 138; Antilles, BARBOUR, 30; DUNN, 139; GRANT & DE SOLA, 189.—Bahamas, BREDER, 63.

South America.—AMARAL, 9; BARBOUR, 27; SENFET, 431, 432; PARKER 355.—Trinidad, PARKER, 357.—Colombia, BARB. & SHREVE, 31.—Venezuela,

MÜLLER, 332, 334.—Ecuador, PARKER, 356; SHREVE, 440.—Brazil, AMARAL, 10; LUTZ, 295; MÜLLER, 332; WETTSTEIN, 515.—Argentine, GAGGERO, 169, 170; MÜLLER, 332.—Chili, GAGGERO, 170; HELLMICH, 211; PFLEUMER, 369.

Galapagos Is.—PARKER, 354; SLEVIN, 443.

III.—PALAEONTOLOGY.

Text-book of palaeontology, HENNIG, 213.—Guide to the fossil Reptiles and Amphibians in British Museum (Nat. Hist.), SWINTON, 472.—Evolution of vertebral column, GADOW, 168.—Types of bone formation in fossil Amphibia and Reptilia, GROSS, 193.—Stegoccephali of the Carboniferous of Nova Scotia, M. C. STEEN, 453.—Gorgonopsia, Therocephalia, Pareiasauria, structure, BOONSTRA, 55.—Evolution of Theriodonts, PARRINGTON, 359.—Revision of the Ceratopsia, LULL, 294.—General account of the Dinosaurs, SWINTON, 471.—Evolution of Dinosaurs, LULL, 294.—Histology of Dinosaur bones, NOPCSA, 343.—Dinosaur remains in France, DORLODOT, 135.—Carnivorous Dinosaurs, teeth, STROMER, 462.—Trachodont teeth and habits, KRIPP, 266.—Evolution and classification of Crocodilia, MOOK, 325.—Alligators of Paraná, Argentine, RUSCONI, 401.—Evolution of Testudines, BERGOUNIOUX, 39.—Fossil Chelonians of Mongolia, GILMORE, 179.—Fossil Chelonians of Hungary, SZALAI, 474.—Distribution of faunas in southern hemisphere, WITTMANN, 523.—Distribution of amphibia and reptilia, NOPCSA, 342.—List of Tertiary Vertebrata of Nebraska, COOK & COOK, 105.—Fossil Amphibia and Reptilia of Australia [Popular], HOWCHIN, 231.—Fossil Amphibia and Reptilia of China [all recent], BIEN, 43.—Fossil amphibia and reptilia in Suffolk, ROPE, 399.—Survey of Belgian fossils, MAILLIEUX, 303.—Formation of Cotylosaurian footprints, KORN, 261.

Carboniferous.—M. C. STEEN, 453.

Permian.—BOONSTRA, 50, 51, 52, 53, 54.

Triassic.—BOONSTRA, 51, 52; BROILI & SCHRÖDER, 66, 67; BROWN, 70; CASE, 83; CASE & WHITE, 84; CORROY, 107; HOEFEN, 224; VON HUENE, 232, 234; NILSSON, 340; SEEMAN, 430; PHAUP, 370.

Jurassic.—DORLODOT, 135.

Cretaceous.—AHNERT, 8; CHAKRAVARTI, 90; VON HUENE, 233; MOOK, 326; PARKS, 358; STERNBERG, 459, 460; WIMAN, 520.

Middle Cretaceous.—STROMER, 463, 464.

Mesozoic.—SWINTON, 471.

Eocene.—BERGOUNIOUX, 38; HELLER, 210; LYNN, 296; WALTHER & WEIGELT, 509.

Miocene.—COOK & COOK, 105.

Oligocene.—COOK & COOK, 105; GILMORE, 179; PETERSON, 368; RUSSELL, 403.

Pliocene.—RUSCONI, 402; SZALAI 474.

Polycene.—BIEN, 43.

Tertiary.—WHIT. & WILSON, 517; RUSCONI, 401.

Pleistocene.—BATE, 36; SZALAI 474.

IV.—SYSTEMATIC INDEX.

Evolution of amphibia and reptilia, HOLMGREN, 228.—Check List of North American Amphibians and Reptiles, STEJ. & BARBOUR 458.—Survey of the S. African species and their problems, POWER 383.—Amphibians and Reptiles of the Sahara, LAVAUDEN 275.—Survey of recent Australian Amphibia and Reptilia (popular), HOWCHIN 231.—Reptiles and Amphibians (popular), BARBOUR 28.—Popular account of nesting habits of reptiles, WUNDER. 531.

AMPHIBIA.

General.—Amphibia of Utah, described and figd., TANNER 476.—Congoese amphibians, 26 species figd., DE WITTE, 522.—Kansas species, with key, H. M. SMITH 444.—Classification of firmisternal families, PARKER 355.—Handbook of N. American Frogs and Toads, WRIGHT & WRIGHT 530.—Hongkong species, BORING 56.

†ORDER STEGOCEPHALI.

Calligenethlon watsoni, gen. & sp. nov., Carboniferous of Nova Scotia, p. 484, M. C. STEEN 453.

Dendryazousa dikella, gen. & sp. nov., Carboniferous of Nova Scotia, p. 482, M. C. STEEN 453.

Dendrysekos helogenes, gen. & sp. nov., Carboniferous of Nova Scotia, p. 481, M. C. STEEN 453.

Gerrothorax rhaeticus, gen. & sp. nov., Upper Trias, near *Plagiosaurus*, p. 440, NILSSON 340.

Leiocephalikon eutheton, gen. & sp. nov., Carboniferous of Nova Scotia, p. 491, M. C. STEEN, 453.

ORDER APODA.

COECILIIDAE.

Chithonerpeton indistinctum, note, GAGGERO 169.

Dermophis larvatus, sp. nov., Seychelles, AHL 5.

Ichthyophis, habits, SESH. & IYER 433.

ORDER CAUDATA.

The Urodela must be cut off from the other amphibians as a tetrapod class of its own, HOLMGREN 228.—Structure and function of lip-folds, MATTHES 308.

HYNOBIIDAE.

Hynobius nigrescens, egg-masses descr. and figd., OKADA 346.—*H. abei*, sp. nov., Nagaoka, near *lichenatus*, p. 15, SATO 405.—*H. kimurai*, variation, SATO 408.

AMBYSTOMIDAE.

Ambystoma jeffersonianum, two forms, CLANTON 98.

SALAMANDRIDAE.

General anatomy, FRANCIS 162.—Salamandridae discussed, HERRE 216.

Dicamptodon, structure, EATON 144.

Hypselotriton, gen. nov., type *Molge wolterstorffi* Blgr. p. 257, WOLTERSTORFF 527.

Mesotriton deloustali, gen. & sp. nov., Tam-dao, Tonkin, near *Tylototriton*, vii p. 11 pl., BOURRET 60.

Molge palmata, distribution, OLDHAM 351.

Onychodactylus fisheri, note fig., INUKAI 235.—*O. japonicus*, egg-masses descr. and figd., OKADA 346.

Pachytriton granulatus, sp. nov., Katou-tsin, near Tai-chou, p. 320, fig., M. L. Y. CHANG 91.

Rhyacotriton, structure, EATON 144.

Salamandra salamandra bejarae, ssp. nov., Bejar, Salamanca Prov., Spain, WOLTERSTORFF 525.

Triturus cristatus danubialis, note, MERTENS 314.—*T. alpestris apuana* variation, WOLTERSTORFF 526.

PLETHODONTIDAE.

Hemidactylium scutatum, egg-laying, nesting habits, BLANCHARD 47, 48, 49.

Plethodon dunni, sp. nov., Eagle Creek, Clackamas Co., near *vehiculatus*, p. 169, BISHOP 45.—*P. welleri*, range, WALKER 506.

ORDER SALIENTIA.

DISCOGLOSSIDAE.

Ascaphus, affinities with *Discoglossus*, DE VILLIERS 501.—*Ascaphus truei*, range, DONALDSON 134.

Bombinator p. pachypus and *B. p. brevipes* are distinct, VACCANEO 490.

BUFONIDAE.

Brasilian species, all figd., LUTZ 295.—*Bufo* spp., size, BORING & LIU 57.—*Bufo hoeschi*, sp. nov., Okahandja, German S.W. Africa, near *anotis*, p. 335, AHL 6.—*B. raddei*, habits, SHAW 438.

CYSTIGNATHIDAE.

Heleophryne, genus reviewed, DU TOIT 486.

HYLIDAE.

Gastrotheca fitzgeraldi, sp. nov., Trinidad, near *pygmaea*, PARKER 357.

Hyla leonhard-schultzei, sp. nov., Malinaltepec, Guerrero, near *phlebodes*, p. 185, fig., AHL 7.—*H. loquax*, sp. nov., north of La Libertad, Guatemala, near *miotympanum*, GAIGE & STUART 171.—*H. subocularis*, sp. n., Rio Chucanaque, Panama, near *underwoodi*, DUNN 137.

Pseudacris brimleyi, sp. nov., Washington, N. Carolina, *nigrita* group, p. 2 BRANDT & WALKER 62.

LEPTODACTYLIDAE.

Eleutherodactylus audanti, sp. nov., Peak La Selle, Haiti, *montanus* group, COCHRAN 100.—*E. portoricensis*, nesting habits, COCHRAN 101.—*E. brederi*, sp. nov., Chalichiman's Creek, Darien, Panama, near *noblei*, DUNN 137.—*E. latrans*, status, PIATT 376.

Glaertia russelli, gen. & sp. nov., near Landor Station, W. Australia, near *Pseudophryne*, p. 89, LOVERIDGE 289.

Heliporus insularis, sp. n., Rottneest I., W. Australia, near *albopunctatus*, p. 92, LOVERIDGE 289.

Pseudophryne blanchardi, sp. n., Millgrove, Victoria, near *australis*, p. 91, LOVERIDGE 289.

BRACHYCEPHALIDAE.

Atelopus spp. discussed, *A. cruciger vogli*, ssp. nov., Las Penas, near Maracay, p. 151, *A. pachyrhinus* Miranda-Ribeiro = *A. tumifrons* Blgr., *A. tumifrons* is a *Dendrophryniscus*, MÜLLER 334.

Rhinoderma darwini, range, photo, GAGGERO 170.—*R. darwini*, habits, PFLAUMER 369.

RANIDAE.

Microbatrachella is a Ranid, DE VILLIERS 502.

Rana grialei, sp. nov., Gondar, Abyssinia, near *beccarii*, p. 344, ANGEL 14.—*R. grayi* in St. Helena, BARBOUR 29.—*R. bufoniformis cognata*, ssp. nov., New Britain, p. 484, HEDIGER 207.—*R. afghana*, tadpole, HORA 230.—*R. asiatica issikkulensis* ssp. nov., Lake Issyk-Kul, Turkestan, KASHGAROV 244.—*R. leithi*, range, McCANN 297.—*R. hexadactyla*, range, McCANN 299.

Pseudohemisis longimanus melano-pleura, ssp. nov., Antsingy, Menabé Prov., W. Madagascar, p. 171, ANGEL 12.

POLYPEDATIDAE.

Rhacophorus catala, sp. nov., Fianarant dist., Madagascar, ANGEL 13.—*Rh. doulioti*, sp. nov., Morondava, W. Madagascar, near *callichromus*, p. 170, ANGEL 12.—*Rh. maximus*, larva and nest described, figs., BHADURI 42.

MICROHYLIDAE.

Microhylidae monographed, PARKER 355.

Asterophrys louisiadensis, sp. nov., Rossel I., Louisadé Arch., near *dubia*, p. 62, *A. minima*, sp. nov., Went Mts., Dutch N. Guinea, near *turpicola*, p. 67, *A. leopoldi* De Witte = *A. turpicola* (Müll.), *A. steini* Ahl = ? *A. turpicola*, PARKER 355.

Austrochaperina ornata Fry referred to *Cophixalus*, PARKER 355.

Breviceps poweri, sp. nov., Broken Hill, N. Rhodesia, near *mossambicus*, *B. parvus* Hewitt = *B. pentheni* Werner, *B. pretoriensis* Fitzsim. = ? *B. adspersus* Peters, which is a valid species, PARKER 355.

Calliglutus = *Colpoglossus*, PARKER, 355.

Callulops = *Asterophrys*, PARKER 355.

Calohyla sundana Peters is a valid sp. of *Metaphrynella*, PARKER 355.

Chaperina visaya Taylor = *Oreophryne annulatus* (Stej.), PARKER 355.

Choerophryne = *Cophixalus*, *Ch. proboscidea* van Kamp. = *Cophixalus rostellifer* (Wand.), PARKER 355.

Cophixalus cheesmanae, sp. nov., Kokoda Brit. N. Guinea, near *verrucosus*, p. 175, PARKER 355.

Cophyla tuberculata Ahl is transferred to *Platypelis* PARKER 355.

Discophina = *Calluella*, PARKER 355.

Engystoma lineatum Blyth is a ssp. of *Kalophrynus pleurostigma* Tschudi, PARKER 355.

Gastrophryne = *Microhyla*, PARKER 355.

Hoplophryne marmorata, sp. nov., Okahandja, German S.W. Africa, near *rogersi*, p. 334, AHL 6.

Hylaedactylus montanus Jerdon is a valid sp. of *Ramanella*, PARKER 355.

Hylophorbus variegatus van Kamp is a *Cophixalus*, PARKER 355.

Hypopachus parkeri, sp. nov., Santa Cruz, Rio de Janeiro, p. 270, WETTSTEIN 515.

Kaloula borealis, larva, LI, 283.—*Kaloula pulchra taprobanica*, ssp. nov., Punduloya, Ceylon, p. 86, PARKER 355.

Liophryne Blgr. = *Sphenophryne* Peters & Doria; *L. kampeni* Blgr. = *Asterophrys valvifera* (Barb.), PARKER 355.

Mantophryne = *Asterophrys*, *M. neuhaussi* Vogt = ? *Asterophrys doriae* (Blgr.), PARKER 355.

Metaphrynella gen. nov., type *Phrynella pollicaris* Blgr., p. 107, PARKER, 355.

Microhyla fowleri, sp. nov., Chiang-mai, N. Siam, near *berdmorei*, p. 284, figs., TAYLOR 482.

Oreophryne kampeni, sp. nov., Moroka, Brit. N. Guinea, near *rookmaakeri*, p. 164, *O. flava*, sp. nov., Lorentz River, N. Guinea, near *annulata*, p. 168, PARKER 355.

Oxydactyla van Kamp. = *Sphenophryne*, PARKER 355.

Phrynixalus Boettger. = *Cophixalus*; *P. annulatus* Stej. referred to *Oreophryne*, PARKER 355.

Phrynomantis Peters = *Asterophrys*, PARKER 355.

Plethodontihyla cruscolum, sp. nov., Manjakatempo, Ankaratra, Madagascar, p. 318, fig., ANGEL 11.—*P. tuberifera* Meth. transferred to *Platypelis*, PARKER 355.

Pomatops = *Asterophrys*, PARKER 355.

Pseudengystoma = *Asterophrys*, PARKER 355.

Ramanella palmata, sp. nov., Newera Ellya, Ceylon, near *obscura*, PARKER 355.

Rhombophryne, skull, DE VILLIERS 499.

Ribeirina, nom. nov. for *Emydops* preoc., p. 115, PARKER 355.

Sphenophryne mehelyi, sp. nov., Sattelberg, N. Guinea, near *rhododactyla*, p. 156, *S. klossi* Blgr. = *S. schlaginhaufeni* Wand.; *S. ateles* Blgr. and *S. verrucosa* Blgr. referred to *Cophixalus*, PARKER 355.

Xenorhina Peters = *Asterophrys*; *X. stresemanni* Ahl = ? *A. oxycephala* (Schleg.); *X. atra* GÜNTHER is valid and referred to *Metopostira*, PARKER 355.

REPTILIA.

†ORDER COTYLOSAURIA.

Cotylosauria, Formation of footprints, KORN 261.

Platyphora = *Bradysaurus*, p. 24, BOONSTRA 53.

†ORDER THEROMORPHA.

Aelurognathus microdon, sp. nov., Cistecephalus zone, Richmond, p. 143, figs., BOONSTRA 51.

Aelurosauroides watsoni, gen. & sp. nov., Endothiodon zone, Gouph, Cape Province, near *Aelurosaurus*, p. 190, fig., BOONSTRA 52.

Arctognathoides breviceps, gen. & sp. nov., Cistecephalus zone, Beaufort West, p. 143, figs., BOONSTRA 51.

Baiopsis gen. nov. for *Dicynodon leptorhinus*, HOEFEN 224.

Burnetia mirabilis, skull descrb. and figd., status, BOONSTRA 54.

Compsodontidae, fam. nov., *Compso-don helmoedi*, gen. & sp. nov., Upper Permian, HOEFEN 224.

Cynognathus platyceps, skull discussed and figd., BROILI & SCHRÖDER 66.

Dicynodontidae includes *Dicynodontinae*, *Pylaecephalinae*, *Oudenodontinae*, *Pelorocephalinae* and *Orophicephalinae*, HOEFEN 224.

Dicynodontinae, subfam. nov. for *Dicynodon* and *Daptocephalus*, gen. nov., HOEFEN 224.

Euchambesidae added to the Therocephalia, BOONSTRA 50.

Galesaurus, skeleton, status, PAR-RINGTON 359.

Gorgonopsia, cervical vertebrae, BOONSTRA 55.

Kannemeyeria, skull described, CASE 83.

Lycideopsidae added to the Therocephalia, BOONSTRA 50.

Oudenodontinae, subfam. nov. for *Sintocephalus* gen. nov., *Oudenodon* and *Aulacocephalodon*; *Oudenodon margaritae*, sp. nov., Upper Permian, HOEFEN 225.

Orophicephalinae, subfam. nov. for *Orophicephalus*, gen. nov., and *Palemydops*, HOEFEN 224.

Pelorocyclopiniae, subfam. nov., for *Rachiocephalus*, *Megacyclops*, *Platycyclops*, *Eocyclops* and *Pelorocyclops*, HOEFEN 224.

Pylaecephalinae, subfam. nov. for *Pylaecephalus*, gen. nov., and *Diictodon*, HOEFEN 224.

Tribolodon frerensis, skull discussed and figd., BROILI & SCHRODER 67.

Tricuspes tuingensis, gen. & sp. nov., Rätbone beds of Germany p. 82, VON HUENE 234.

†ORDER ICHTHYOSAURIA.

Bibliography, KUHN 268.

†ORDER SAUROPTERYGIA.

Sauropterygia, remains, CORROY 107.

†ORDER THECODONTIA.

Bibliography, KUHN 268.

Leptosuchus studei, sp. nov., Triassic of Texas, figs. skull, CASE & WHITE 84.

†ORDER DINOSAURIA.

General account of the group, SWIN-TON 471.

Bahariasaurus ingens, gen. & sp. nov., Baharije-Stufe of Egypt, near *Spinosa-saurus*, p. 24, STROMER 464.

Brachypodosaurus gravis, gen. & sp. nov., Lameta Beds of Jubbulpore, near *Stegosaurus*, p. 79, CHAKRA-VARTI 90.

Chasmosaurus brevirostris, sp. nov., Belly River formation, Alberta, p. 94, LULL 294.

Compsognathus, teeth, STROMER 462.

Edmontosaurus, dentition and habits, KRIPP 266.

Halticosaurus liliensterni, sp. nov., Triassic of Austria, p. 167, VON HUENE 232.

Mandschurosaurus amurensis, mount-ed skeleton, AHNERT 8.

Massospondylus carinatus, remains, PHAUP 370.

Ornithomimus elegans Parks, dis-cussed, STERNBERG 460.

Saurischia, SEEMANN 430.

Struthiomimus currelli Parks = *Ornithomimus edmontonicus* Sternberg, STERNBERG 460.

Theropoda, teeth, STROMER 462.

ORDER LORICATA.

Crocodyles in the Sahara, JOLEAUD 240; LAVAUDEN 275.

Crocodylia divided into 4 suborders, viz., Protosuchia, subord. nov., type fam. Protosuchidae Brown, Mesosuchia, Thalattosuchia, Eusuchia, the last named including the recent species, MOOK 325.

Crocodylus porosus, note on post-occipital scutes, DERANIYAGALA 127.—*C. niloticus*, distribution, JOLEAUD 240.—†*Crocodylus* in Palestine, BATE 36.

†*Jacaretinga praecursor*, sp. nov., Miocene of Paraná, Argentine, p. 37, RUSCONI 401.

†*Leidyosuchus canadensis*, skull describ. and figd., STERNBERG 459.

†*Protosuchus* nom. nov. for *Archeo-suchus* preocc., BROWN 70.

†*Teleorhinus robustus*, sp. n., Mon-tana, Benton Shales, near *browni*, p. 1, MOOK 326.

ORDER RHYCHOCEPHALIA.

†*Champsosaurus natator*, sp. nov., Belly River Beds of Alberta, near *laramiensis*, p. 122, figs., *C. inflatus*, sp. nov., same horizon, p. 131, *C. inelegans*, nom. prov., same horizon, p. 135, PARKS 358.

ORDER TESTUDINES.

General.—List of the living species, RUST 404.—List of the Chinese species, with key, POPE 379.—Chinese species, FANG 154.—Size of eggs of marine turtles, BAKER 25.

†BAENIDAE.

Baena nodosa, figd., WIMAN 520.

Neurankylus baureri, figd., WIMAN 520.

SPHARGIDAE.

Dermochelys and "Pilot Fish," HELDT 208.—*Dermochelys*, evolution, DERANIYAGALA 124. — *Dermochelys schlegeli* at Vancouver I., ANON 17.

PLEURODIRA.

CHELYIDAE.

†*Acrohydraspis*, subgen. nov., type *Platemys robusta*, to include also *P. bergi*, *P. mesopotamica* and *P. holmbergi*, RUSCONI 402.

†*Aperotemporalis baharijensis*, gen. & sp. nov., Cretaceous of Egypt, STROMER 463.

Emydura signata = *E. latisternum*, LOVERIDGE 288.

†*Hydraspis arenarius*, sp. nov., Upper Pliocene of Villa Ballester, Buenos Aires, RUSCONI 402.

PELOMEDUSIDAE.

Pelusios, osteology, CHABANAUD 89. *Pelusios heinrothi* = *P. niger*, MÜLLER 331.

CRYPTODIRA.

CHELONIIDAE.

Scutellation, DERANIYAGALA 125.

Caretta, spp. defined, *C. gigas*, sp. nov., Ceylon, near *caretta*, DERANIYAGALA 122. — *Caretta* spp., status, DERANIYAGALA 123. — *Caretta* egg-laying, GREAVES 190.

KINOSTERNIDAE.

Kinosternon creaseri, sp. nov., Hacienda, Chichen Itza, Yucatan, near *berendtianum*, HARTWEG 204.

DERMATEMYIDAE.

†*Basilemys nobilis*, figd., WIMAN 520.

EMYDIDAE.

Cathaiemys Lindholm = *Clemmys*, NAKAMURA 337.

Chinemys megaloccephala, sp. nov., Nanking, near *reevesi*, p. 158, fig., FANG 154.

Clemmys mutica in Japan, NAKAMURA 337.—†*Clemmys hungarica*, sp. nov., p. 106, Hungary, SZALAI 474.

Cyclemys flavomarginata sinensis Hsü = *C. flavomarginata*, FANG 154.

†*Emys strandi*, sp. nov. Upper Oligocene of Hungary, p. 108, pl. i, SZALAI 474.

Geoclemys kwangtungensis, sp. nov., Lofaoshan, Kwangtung Prov., China, near *reevesi*, POPE 380.—*G. paracaretta* Chang = *Chinemys reevesi*; *Geoclemys nigricans* is a *Chinemys*, FANG 154.

Geomyda, key to the American species, WETTSTEIN 516.—*Geomyda spengleri sinensis* Fan. = *G. spengleri*, FANG 154.

Terrapene, genus revised, all spp. figd., DITMARS 131.

†*Sharemys* = *Clemmys*, SZALAI 475.

TESTUDINIDAE.

Chersinella, genus revised, all species photod., *C. schonlandi*, sp. nov., Namaqualand, near *fiski*, p. 303, *C. fiski cromwrighti*, ssp. nov., Hanover, C.P., p. 317, *C. f. orangensis*, ssp. nov., Petrusville dist., p. 319, *C. f. colesbergensis*, ssp. nov., Colesberg, p. 321, *C. f. grica*, ssp. nov., Marydale, p. 323, *C. f. gricoides*, ssp. nov., Niekerkhope, p. 326, *C. verroxii amasensis*, ssp. nov., Ukamas dist., p. 333, HEWITT 222.

†*Testudo corroyi*, sp. nov., Eocene of Palette, BERGOUNIOUX, 38.—†*Testudo racmecskeensis*, sp. nov., p. 118, †*T. csakvarensis*, sp. nov. p. 119, †*T. hungarica*, sp. nov., p. 123, †*T. lambrechtii*, sp. nov., p. 128, Upper Pliocene, †*T. süttöensis*, sp. nov., Upper Pleistocene, Hungary, figs., SZALAI 474.

TRIONYCHIDAE.

†*Amyda gregaria*, sp. nov., Houldjin, Middle Oligocene of Mongolia, near *egregia*, p. 1, GILMORE 179.—*Amyda schlegeli laoshanica*, var. nov., Laoshan, near Tsingtao, PAVLOV 361.

†*Platypeltis sternbergi*, sp. nov., Upper Cretaceous of New Mexico, p. 33, fig. carapace, WIMAN 520.

†*Trionyx harmati*, sp. nov., p. 132, †*T. nopsai*, sp. nov., p. 134, †*T. pseudovindobonensis*, p. 134, figs., Hungary, SZALAI 474.—†*Trionyx* in Palestine, BATE 36.

ORDER SQUAMATA.

SAURIA.

GEKKONIDAE.

Anatomy and mechanism of adhesion of digital pad, DELLIT 120.

Coleonyx mitratus Peters and *C. dovii* Blgr. = *C. elegans* Gray, WETTSTEIN 516.—*C. brevis* and *variegatus*, differences, photos, H. M. SMITH 446.

Diplodactylus ciliaris revived as a ssp. of *spinigerus*, *Diplodactylus platyurus* = *D. hilli*, ? *D. bilineatus*, *D. pulcher dorsalis* and ? *D. lucasi* = *D. pulcher*, LOVERIDGE 288.—*D. spinigerus*, protective modification of tail, BOURNE 59.

Gehyra papuana Meyer revived, *G. lampei* Anderss. = *G. papuana*, BRONGERSMA 68.—*G. australis* is a race of *Peropus variegatus*, LOVERIDGE 288.

Gymnodactylus defosseii Dunn = *G. d'armandvillei*, *G. papuensis*, nom. nov. for *G. novae-guineae* Brongersma 1928 preocc., BRONGERSMA 68.—*G. heteronotus* and *G. cheverti* = *G. pelagicus*, *G. laevis* = *Diplodactylus conspicillatus*, LOVERIDGE 288.

Hemidactylus tristis Sauvage = *H. frenatus*, BRONGERSMA 68.—*H. exsul* = *H. turcicus*, STUART 466.

Heteronota fasciata and *H. marmorata* = *Gymnodactylus pelagicus*, *H. eboracensis* = *H. binoei*, LOVERIDGE 288.

Lophopholis, gen. nov., type *Teratolepis scabriceps* Annandale, Ceylon, SMITH & DERAN. 452.

Lygodactylus laurae, sp. nov., Chitau, Bihe Dist., Angola, near *capensis*, p. 4, SCHMIDT 416.

Oedura tryoni, *O. fraticolor*, *O. ocellata*, *O. cincta*, *O. monolis* and *O. mayeri* = *O. marmorata*, LOVERIDGE 288.

Oedurella taeniata = *Diplodactylus michaelsoni* LOVERIDGE 288.

Pachydactylus bibronii, photo, COTT 108.—*P. bibroni pulitzae*, ssp. nov., Pico Azevedo, Angola, SCHMIDT 416.

Phyllodactylus macrodactylus, *P. affinis* and *P. guentheri* = *P. marmoratus*, *P. (Oedura) castelnaui* = *Oedura marmorata*, LOVERIDGE 288.

Pristurus migiurtinicus, sp. nov., p. 242, *P. percristatus pseudoflavipunctatus*, ssp. nov., p. 243, Migiurtinia, Ital. Somaliland, SCORTECCI 427.

Rhoptropus boultoni, sp. nov., Pico Azevedo, Mossamedes, Angola, near *barnadi*, p. 7, SCHMIDT 416.

Sphaerodactylus bartschi, sp. n., Little Cayman I., p. 5, *S. caicosensis* sp. n. South Caicos, Bahamas, p. 7, both near *argus*, *S. mariguanae*, sp. n., Booby I., Bahamas, near *argivus*, p. 9, COCHRAN 101.

Torresia gen. nov. for *Thecadactylus australis* Günth., BRONGERSMA 68.

AGAMIDAE.

Agama mutabilis is a varietal form of *A. flavimaculata*, KUNTZE 270.

Amphibolurus websteri and *A. holsti* = *A. scutellatus*, *A. modestus* = *A. pictus*, *A. reticulatus major* = *A. r. inermis*, *A. pallidus* = *A. adalaidensis*, *A. vitticeps* = *A. b. bartus*, *A. branchialis* = *Physignathus lesuerii*, LOVERIDGE 288.

Diporiphora nuchalis and *D. ornata* = *D. australis*, LOVERIDGE 288.

Draco divergens, sp. nov., Chiangmai, N. Siam, near *maculatus*, p. 291, fig., TAYLOR 482.—*Draco*, gular sacs, WILLIAMS 519.

Grammatophora inermis is a race of *Amphibolurus reticulatus*, LOVERIDGE 288.

Physignathus nigricollis = *Diporiphora bilineata*, *P. incognitus* = *P. g. gilberti*, LOVERIDGE 288.

Uromastix acanthinurus, habits, photo, POPP 382.

IGUANIDAE.

Anolis, list of spp. with type locs., BARBOUR 27.—*A. dominicensis juliae*, ssp. nov., Isle Vache, Haiti, p. 169, COCHRAN 100.—*A. megapholidotus*, sp. nov., Guerrero, Mexico, p. 318, H. M. SMITH, 447.

Audantia armouri, gen. and sp. nov., Peak La Selle, Haiti, *Anolis* group, p. 171, COCHRAN 100.

Ctenosaura similis multipunctata, ssp. nov., Old Providence I., Colombia, BARB. & SHREVE 31.

Iguana, 3 forms, distribution, *rhinophlopha* is a race of *i. iguana*, DUNN 138.

Leiocephalus personatus aureus, spp. nov., Jacmel, Haiti, p. 175, *L. p. louisae*, ssp. nov., Saona I., Dominican Republic, p. 177, COCHRAN 100.—*L. personatus lunatus*, ssp. nov., S. Domingo City, p. 153, COCHRAN 102.

Liolaemus, genus discussed and figd., HELLMICH 211.

Sceloporus spp. discussed, H. M. SMITH 448.

Stenocercus carrioni, sp. n., Zamora, Ecuador, near *simonsi*, p. 269, PARKER 356.

CHAMÆLEONIDAE.

Chamaeleon dilepis, photo'd in copula, COTT 108.

SCINCIDAE.

Ablepharus anomalus revived as a ssp. of *lineo-ocellatus*; *A. lineo-ocellatus ruficaudus* = *A. taeniopleurus*, *A. heteropus* = *A. burnetti*, *A. rhodonoides* = *A. timidus*, LOVERIDGE 288.—*Ablepharus boutoni*, range, MERTENS 313.

Acontias (Nessia), discussed; *A. (N.) didactylus*, sp. nov., Polgahavela, Ceylon, *A. (Eresia) smithi*, sp. nov. Gammaduva, Ceylon, DERANIYAGALA 126.

Anguinicephalus, subgen. nov., for *Acontias layardi*, DERANIYAGALA 126.

Cophoscincopus nom. nov., for *Cophoscincus* preocc., MERTENS 321.

Egernia nitida and *E. napoleonis* revived as species, *Egernia striata* = *E. inornata*, *E. pulchra* = *E. napoleonis*, LOVERIDGE 288.

Eumeces, Canadian species, PATCH 360.—*E. indubitus*, sp. nov., S.E. of Mexico City, near *dugesii*, TAYLOR 478.—*E. chinensis*, var. nov. fig. [unnamed], W. Szechuan, PEN & HO 362.

?*Hemiergis initiale* = *Siaphos maccoyi*, LOVERIDGE 288.

Heteropus mundus = *Leiolopisma pectoralis*, LOVERIDGE 288.

Hinulia ambigua = *Sphenomorphus f. fasciolatus*, *H. domina* = *S. tigrina*, LOVERIDGE 288.

Leiolopisma rouxi, sp. nov., Fissao, New Mecklenburg, near *longiceps*, p. 462, fig., HEDIGER 207.—*Leiolopisma unicolor* (Harlan) is correct name for *L. lateralis* (Say), STEJNEGER 457.

Lygosoma tympanum is a race of *Sphenomorphus quoyii*, *L. brachysoma* is a race of *S. tenuis*, *L. (Homolepida) petersi* is a race of *Omolepida casuarinae*, LOVERIDGE 288.—*Lygosoma ocelliferum* and *L. (Hinulia) brevunguis* = *Sphenomorphus ocellatus*, *L. lesuerii* = *S. a. australis*, *L. dorsale* = *S. spaldingi*, *L. (H.) tenuis intermedia* = *S. t. tenuis*, *L. tamburinense* = *S. tenuis brachysoma*, *L. (H.) elegantulum* = *S. pardalis*, LOVERIDGE 288.—*Lygosoma devisii* = *Leiolopisma peroni*, *L. laevae* and *L. aeratum* = *Leio. nova-guineae*, LOVERIDGE 288.—*Lygosoma gastrostigma* = *Omolepida melanops*, LOVERIDGE 288.—*Lygosoma lentiginosus* and *L. frontalis* revived as species of *Lygosoma* [s.s.] LOVERIDGE 288.—*Lygosoma praepeditum* = *Rhodona lineata*, LOVERIDGE 288.—*Lygosoma verrauxi biunguiculata* and *L. bancrofti* = *Lygosoma* [s.s.] *lentiginosus*, LOVERIDGE 288.—*Lygosoma (Sphenomorphus) melanopogon* restricted to New Guinea, BRONGERSMA 68.—*Lygosoma larutense*, figs., SWORDER 473.

Mocoo nigricaudis = *Sphenomorphus pardalis*, LOVERIDGE 288.—*Mocoo spectabilis* = *Leiolopisma challengerii*, *M. lichenigera* = *L. cuprea*, ? *M. delicata* = *L. guichenoti*, LOVERIDGE 288.

Omolepida melanops revived as a species, LOVERIDGE 288.

Scelotes andranovahensis, fig., head, ANGEL 11.

Siaphos scharffi = *Lygosoma* [s.s.] *graciloides*; *S(iaphos) simplex* = *Lygosoma verrauxi*, LOVERIDGE 288.—*Siaphos dewittei*, nom. nov. for *Lygosoma (Siaphos) compressicauda* de Witte preocc., LOVERIDGE 291.

Sphenomorphus, sp. nov. [unnamed] Szechuan, p. 120, PEN & HO 362.

Tiliqua occipitalis auriculare = *T. o. multifasciata*, LOVERIDGE 288.

TEIIDAE.

Ameiva rosamondae, sp. nov., Saona I., Dominican Republic, p. 179, near *barboursi*, *A. chrysolaema woodi*, ssp. nov., Tortue I., Haiti, p. 181, COCHRAN 100.

LACERTIDAE.

Apathya cappadocica urmiana, ssp. nov., Berdesur defile, W. of Sea of Urmi, LANTZ & SUCHOW 273.

Eremias arguta, distribution, *E. a. uzbekistanica*, ssp. nov., Golodnaja Step, S.W. Turkestan, p. 670, CERNOV 87.

Lacerta stehlini, *monticola*, *schreiberi*, *dugesii*, *galloti*, ♂♂ ♀♀, figd., CYRÉN 115.—*L. erhardii schweizeri*, ssp. nov., Erimomilos, Cyclades Is., MERTENS 320.—*Lacerta agilis* in Sussex, HARDCASTLE 202.

Philocortus zolii, sp. nov., S. of Gat, Tripoli, near *intermedius*, SCORTECCI 424.

GERRHOSAURIDAE.

Gerrhosaurus cipriani, note, photo, SCORTECCI 428.

AMPHISBAENIDAE.

Chirindia bushbyi, sp. nov., Amaton-gas, Portugese E. Africa, near *swynner-toni*, p. 158, fig., COTT 108.

Monopeltis mossambica, sp. nov., Caia, Portugese E. Africa, near *granti*, p. 155, fig., COTT 108.

ANGUIDAE.

Anguis fragilis, age, DIXON 132.

Gerrhonotus cedrosensis, sp. nov., Cedros I., Lower California, near *multicarinatus*, p. 6, *G. caeruleus shastensis*, ssp. nov., Burney, Shasta Co., California, p. 6, *G. scincicauda nanus*, ssp. nov., p. 7, South I., Los Coronados Is., Lower California, FITCH 157.—*G. multicarinatus* and *scincicauda*, names transposed, *G. parvicarinatus*, sp. nov., Todos Santos, Lower California, FITCH 158.—*G. alfaroi*, figs. head scales, WETTSTEIN 516.

Macrogonylus brauni = *Celestus occiduus*, LOVERIDGE 288.

ANNIELLIDAE.

Anniella nigra, coloration, FISHER 156.

ZONURIDAE.

Zonurus parkeri, Amaton-gas, Portugese E. Africa, near *tropidosternum*, p. 151, fig., COTT 108.

VARANIDAE.

Varanus komodoensis, photos, DITMARS 129; GREGORY 191.—*V. tsukamotoi*, sp. nov., Saipan I., Caroline Is., near *salvator*, KISHIDA 248.—*V. albigularis angolensis*, ssp. nov., Gaucha, Bihe, Angola p. 10, SCHMIDT 416.—*V. ingrami* = *V. spenceri*, LOVERIDGE 288.—*Varanus* as food, WILLIAMS 519.

SERPENTES.

Poison apparatus of *Opisthoglypha*, RADOVANOVIC 385.—*Opisthoglypha* and *Proteroglypha* of Italian Somaliland described and figd., SCORTECCI 425.—Egg-laying by *Causus* during 7 successive months, retention of active spermatozoa for 5 months, WOODWARD 529.—List of the Chinese species, with key, POPE 379.—List of spp. of S.E. Europe, BURESCH & ZONKOW 71.—Handling poisonous snakes, ELLIOT 149.

†PALEOPHIDAE.

Paleophis virginianus, sp. nov., Eocene of Virginia, LYNN 296.

TYPHLOPIDAE.

Typhlops koekkoeki, sp. nov., Boenjoe I., N. Borneo, p. 186, *T. supranasalis*, sp. nov., Salawatti, Dutch N. Guinea, near *flaviventer*, p. 191, *T. fusconotus*, sp. nov., Doré, N. Guinea, near *flaviventer*, p. 192, *T. similis*, sp. nov., Doré, N. Guinea, near *flaviventer*, p. 192, *T. diardi nigroalbus* = *T. d. mulleri*, p. 193, *T. ater suturalis*, ssp. nov., Andai, N. Guinea, p. 196, BRONGERSMA 68.—*T. nigrescens* revived as a species, *T. waitii* = *T. australis*, LOVERIDGE 288.

BOIDAE.

Liasis c. perthensis = *L. childreni*, LOVERIDGE 288.

COLUBRIDAE.

(AGLYPHA.)

Calamaria pavimentata banaensis, ssp. nov., Bana, Annam, III, p. 10, BOURRET 60.

Coluber striolatus, **nom. nov.** for *C. lineatus* Dum. & Boc. **preocc.**, MERTENS 321.—*C. ortenburgeri*, **sp. nov.**, W. of La Libertad, Guatemala, near mormon, affinities with *Masticophis*, STUART 467.

Contia persica, range, D'ABREU 116.

Coronella semiornata var. *mossambicae*, **var. nov.**, Fambani, Portuguese E. Africa, p. 967, COTT 109.

Dendrelaphis, genus revised, MERTENS 318.

Dendrophis united with *Dendrelaphis*, MERTENS 318.

Dromicus parvifrons rosamondae, **ssp. nov.**, Vache I., Haiti, COCHRAN 100.

Elaphe porphyracea longilineata, **var. nov.**, Tonking, vi, p. 6, *E. leonardi chapaensis*, **ssp. nov.**, Chapa, Tonking, i, p. 7, *E. moellendorffi tonkinensis*, **ssp. nov.**, Tonking, ii, p. 11, BOURRET 60.—*E. subradiata enganensis*, status, BRONGERSMA 68.

Helicops pastazae, **sp. n.**, Pastaza R., Ecuador, near *polylepis*, SHREVE 440.

Holarchus taeniatus caudaensis, **ssp. nov.**, Cauda, Nha-trang, Annam, iii, p. 9, BOURRET 60.—*H. roulei* = *Elaphe mandarina*, ANGEL & BOURRET 16.

Liopeltis major, 3 **ssp.**, v, BOURRET 60.

Masticophis taeniatus, races, GLOYD & CONANT, 182.—*Masticophis* = *Coluber*, MERTENS 321.

Natrix atemporalis, **sp. nov.**, Tonking, near *sauteri*, vi, p. 3, BOURRET 60.—*N. (Rhabdophis) luobaoensis*, **sp. nov.**, Lao-bao Mts., Annam, near *speciosus*, iii, p. 5, BOURRET 60.—*N. deschauenseei*, **sp. nov.**, Chiangmai, N. Siam, near *groundwateri*, p. 300, fig., TAYLOR 482.—*N. sipedon*, races, CONANT 104.—*N. (Rhabdophis) angelii*, **sp. nov.**, and *N. chrysarga callichroma*, **ssp. nov.**, Tam-dao, Tonking, ii, p. 6, BOURRET 60.

Oophilositum discussed, *O. parkeri*, **sp. nov.**, Kabulire, W. of Lake Kivu. *O. werneri* (Mocquard) = *O. fasciatum*, ANGEL 15.

Oligodon violaceus pallidocinctus, **var. nov.**, Cochin China, iv, p. 8, BOURRET 60.

Parahelicops annamensis, **gen. & sp. nov.**, Bana, Annam, near *Opisthotropis*, iii, p. 6, BOURRET 60.

Pararhabdophis chapaensis, **gen. and sp. nov.**, near *Sibynophis*, Chapa, Tonking, i, p. 3, BOURRET 60.

Ptyas mucosus as food, SUBRAHMANIAM 469.

Rhadinaea brevirostris (Peters) revived as distinct, SHREVE 440.

Sonora semiannulata, variation, STRECKER 461.

Zamenis gemonensis viridiflavus, note and col. pl., LEGROS 280.

(OPISTHOGLYPHA.)

DIPSADOMORPHINAE.

Boiga dendrophila, 8 races, viz., *d. dendrophila* (Boie), *melanota* (Blgr.) *occidentalis*, **ssp. nov.**, Nias, p. 211, *annectens* (Blgr.), *multicincta* (Blgr.), *divergens* Taylor, *latifasciata* (Blgr.), *gemicincta* (D. & B.), BRONGERSMA 68.

Dipsoglyphophis duchesnii, note, photo, MERTENS 316.

Dryophis mycterizans, effects of venom on *Calotes*, MCCANN 298.

Lygophis boursieri Jan, revived as distinct, SHREVE 440.

HOMALOPSINAE.

Hypsirhina longicauda, **sp. nov.**, Grand Lac, Cambodia, iv, p. 11, *H. enhydris subtaeniata*, **var. nov.**, and *H. bocourti soctrangensis*, **ssp. nov.**, Soc-trang, Cochin China, iv, p. 9, BOURRET 60.

Pseudoferania macleayi = *Enhydris polylepis*, LOVERIDGE 288.

(PROTEROGLYPHA.)

ELAPIDAE.

Aspidomorphus Fitzinger has priority over *Pseudelaps* Dumeril, *A.* has two **sp.** viz. *mulleri* and *schlegeli*, *A. muelleri* has 4, races, viz. *m. muelleri*, *m. lineaticollis*, *m. interruptus*, **ssp. nov.**, New Britain, p. 231 and *m. lineatus*, **ssp. nov.**, Woodlark I., p. 232, figs., BRONGERSMA 68.

Denisonia maculata devisii, note, photo, KELLAWAY 246.—*D. maculata devisi* = *D. maculata*, LOVERIDGE 288.

Diemenia maculiceps = *Demansia* *p. psammophis*, *D. atra* = *Demansia* *p. olivacea*, *D. ingrami* = *Demansia* *textilis nuchalis*, LOVERIDGE 288.

Lycodon reticulatus and *L. olivaceus* are races of *Demansia psammophis*, LOVERIDGE 228.

Pseudelaps m. insulae = *P. muelleri*, LOVERIDGE 288.

Pseudonaja nuchalis and *P. affinis* are races of *Demansia textilis*, LOVERIDGE 288.

Rhynchelaps wood-jonesii, sp. nov., Lower Archer R., N. Queensland, near *semifasciatus*, p. 529, THOMSON 483.

Sepedon haemachaetes, photo, NOYES 344.

HYDROPHIIDAE.

? *Astrotia stokesi*, breeding habits, p. 43, W. P. Low 293.

Enhydrina schistosa in the Grand Lac, Cambodia, iv, BOURRET 60.

Laticauda crockeri, sp. nov., Lake Tungano, Rennel I., Solomon Is., SLEVIN 442.

VIPERIDAE.

Agkistrodon mokasen, breeding habits, etc., GLOYD 181.—*A. mokasen laticinctus*, ssp. nov., Bexar Co., Texas, p. 2, GLOYD & CONANT 183.—*Agkistrodon* spp. in northern Asia, CERNOV 88.

Atractaspis babaulti, sp. nov., Lake Kivu, N. of Katanga, Madagascar, near *coarcti*, p. 169, ANGEL 12.

Bothrops albocarinata, sp. nov., Pastaza R., Ecuador, near *chloromelas*, SHREVE 440.—*B. alticola*, sp. nov., Loja, Ecuador, near *peruvianus*, p. 272 PARKER 356.

Lachesis oligolepis Werner has priority over *L. chloromelas* Blgr., PARKER 356.

Trimeresurus tonkinensis, sp. nov., Tam-dao, Tonking, near *monticola*, i, p. 10, BOURRET 60.

Vipera berus, courtship, LOTHERINGTON 287.

INCERTI SEDIS.

†*Asaphestera platyris*, gen. & sp. nov., Carboniferous of Nova Scotia, p. 493, M. C. STEEN 453.

†*Atopotera moneres*, gen. & sp. nov., Carboniferous of Nova Scotia, p. 494, M. C. STEEN 453.

†ICHNITES.

Cotylosauria, KORN 261.

XV. AVES

ARRANGED BY

W. L. SCLATER, M.A.

CONTENTS.

| | PAGE |
|-------------------|------|
| I.—TITLES | 1 |
| II.—SUBJECT INDEX | 62 |
| III.—SYSTEMATIC | 74 |

I.—TITLES.

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Zwirner, E. *vide* Schmid.

II.—SUBJECT INDEX.

For full reference see Titles.

COMPREHENSIVE AND GENERAL.

History.—Dutch ornithology, SWAEN, 1337; Faroe ornithology to 1800, SALOMONSEN, 1167; Greenland ornithology, HELMS, 538; Correspondence of Naumann on German ornithology, THOMSEN, 1374; Bird traditions in China, WANG, 1455; Champlain's West Indian notes, CLARK, 226; Early bird-lists in the United States, BRYANT, 163; Early American bird-lists, NICHOLS, 975; Auburey's notes on N. Amer. birds, FRIEDMANN, 394; Early notes on Canadian ornithology, BLACK, 103; Identification of birds on monuments of Ancient Egypt, GAILLARD, 410, 411; KUENTZ, 693; History of the domestication of *Gallus*, LOWE, 781; BATE, 56; *Perdix "damascena"*, LAVAUDEN, 730; Passenger Pigeon, WILSON, 1487; Early drawings of Woodcock's bill, MOUSLEY, 940; Swan marks of London area, N. F. TICEHURST, 1381; Leguat and his voyage to Rodriguez, MORTENSEN, 935; Audubon's copper plates, KNAPPEN 676.

Biography.—C. von Baldenstein, BOUBIER, 116; David Douglas, HALL, 496; F. Faber, HELMS, 539; A. D. d'Orbigny, BERLIOZ, 85; F. A. L. Thienemann, JACOBI, 613; J. A. Wahlberg, GYLDENSTOLPE, 490; J. Xantus, HARRIS, 512.

Biographies: Obituaries.—J. H. Bowles, KITCHIN, 668; D. R. Dickey, HARRIS, 511; P. E. Freke, PALMER, 1002; F. Fülliborn, GROTE, 483; A. F. Griffith, M—, 795; G. H. Gurney, RIVIERE, 1119; F. H. H. Guillemard, TICEHURST, 1379; E. Hartert, v. BOXBURGER, 127; KLEINSCHMIDT, 673; LAUBMANN, 728a; MEISE, 375; PALUDAN, 1006; PARISI, 1009; ROTHSCHILD, 1152; SNOUCK-AERT V. S., 1254; STEINBACHER, 1288; WITHERBY & JOURDAIN, 1498; M. C. R. van HAVTE, HENS, 545a; W. J. Hoxie, FARGO, 373; K. Loos, HEYDER, 557; W. D. K. MacGillivray, PALMER, 1002; PULLEINE, 1085; E. G. D. Meade-Waldo, LODGE, 757; LOWE, 782; G. F. Morcom, SWARTH, 1340; E. D. van Oort, BAYER, 62; DE BEAUFORT, 64; JOURDAIN, 638; PALMER, 1002; F. R. Ratcliff, JOURDAIN, 639; R. Schlegel, HILDEBRANDT, 565; R. Schlegel, JACOBI, 614; E. Selous, DELAMAIN, 298; R. W. Shufeldt, LAMBRECHT, 716; F. W. Smalley, ANON, 26; TICEHURST, 1379; R. H. Stamm, JESPERSEN, 619; L. R. Sutherland, BERRY, 90; J. E. Thayer, MATHEWS, 844; PHILLIPS, 1044; C. W. Townsend, MATHEWS, 847; Mrs. M. A. Wright, PALMER, 1002; P. P. C. Zaphiro, TICEHURST, 1378.

General Works.—Birds in Handbook of Zoology, STRESEMANN, 1316; Sea Birds, JONES, 631; Migration, BOUTON, 120; British Birds, INGRAM & SALMON, 607; PYCRAFT, 1086; Birds of France, MENEGAUX, 882; Dutch Birds, KUPURUS & THIJSSSE, 700; Birds of Texel, Holland, DRIJVER, 327; Northwestern Germany, BRINKMANN, 139; Hamburg neighbourhood, DIETRICH, 310; Denmark, HØRRING, 587; West Africa, FAIRBURN, 370; Southern Rhodesia, PRIEST, 1080; Nest and eggs Indian Birds, BAKER, 41; China, LA TOUCHE, 728; Japan, TAKA-TSUKASA, 1351; Philippine Is., HACHISUKA, 491; Catalogue of Birds of the Americas, HELLMAYR, 536; Eastern North America, CHAPMAN, 204; PETERSON, 1040; Canada, TAVERNER, 1356.

Popular Sketches and Addresses.—CHAPMAN, 206; PEARSON & BROOKS, 1017; JOURDAIN, 643; RICHMOND, 1110; Sea Birds, MARPLES, 831; Isle of Man Birds, MADOC, 812; Swiss Birds, NOLL, 981.

Bibliography.—Brittany birds, LE-BEURIER & RAPINE, 734; Pyrenean ornithology, MAYAUD, 858; DE PAILLERETS, 1000; Date of Pallas' Zoogr. Rosso-As., SHERBORN, 1235; Skottowe's Bds. of N.S. Wales, IREDALE, 610; Works of J. H. Bowles, KITCHIN, 668; D. R. Dickey, HARRIS, 511; E. Hartert, ROTHSCHILD, 1152; R. Schlegel, JACOBI, 614.

Institutions and Museums.—Guide to fossil Birds in Bt. Mus., SWINTON, 1344; Account of Heligoland Bird Station, ALEXANDER, 6; Report of Rositten bird-station, SCHÜZ, 1214; Bird watching station "Lotos," LOOS, 768; RICHTER, 1111; Care of Birds in Berlin Zoo, STEINMETZ, 1299; Birds of Prey in Vienna Zoo, ANTONIUS, 28; Birds in Tientsin Museum, LEYS & LICENT, 1236, 1227.

Methods and Technique.—For recording bird-song, METFESSEL, 884; Investigation of migration, DROST, 329; Preparation of bony labyrinth of ear, TURKEWITSCH, 1410; Studying increased air-pressure on developing egg, CUNNINGHAM, 264; Methods of hypophysectomy, HILL & PARKES, 567.

Economics.—Field observations and economics, KALMBACH, 648; Guano production in Australia, MATTINGLEY, 850; Economics of Brazilian birds, IHERING, 603; Javan birds devouring *Terias* caterpillars, SPENNEMANN, 1265; Economic status of Gulls in Holland, v. DOBBEN, 315a; *Phalacrocorax* in the Baltic, MEYER, 889; British Woodpeckers, ANON, 22; House-Sparrow in Brazil, PINTO, 1051; *Sturnus* in Holland, KLUIJVER, 675; Plague of Starlings in Devon, STUCLEY, 1327; Effects of temperature and humidity in hatching Pheasant and Quail eggs, ROMANOFF, 1139; Birds shot for pleasure and profit in Russia, MOLCHANOV, 903; Falconry and Falcons, FLEMING, 382.

Conservation.—General, PITTET, 1055; Birds-of-Prey in France,

ROCHON-DUVIGNEAUD, 1132; Conservation in London Parks, ANON, 18A; DUFF & others, 331; In Norfolk, LONG, 759; Waterfowl in Canada, LEWIS, 739; Migrating birds in N. America, PHILLIPS, 1043; Need for conservation in Galapagos Is., P. R. LOWE, 784.

Naturalization.—Hungarian Partridge in U.S.A., YEATER, 1535.

Aviculture.—CAYLEY, 197; DELACOUR, 294; EZRA, 368, 369; HOPKINSON, 580; LAW, 731; MEISE, 873; MOODY, 917; PETERS, 1031; ROBINSON, 1128; SETH-SMITH, 1222-4; SHERRIFF, 1236; STEINFATT, 1293; STEINMETZ, 1299, 1300; TAVISTOCK, 1361; WIGHT, 1482.

Nomenclature.—Type localities of old N. Amer. Birds, v. ROSSEM, 1144; Changes in British List, ANON, 21; Miscellaneous notes, M.-PRAED & GRANT, 808; MATHEWS, 845; MAYAUD, 858.

Vernacular Names.—General principles, GRINNELL, 466; Vernacular names in Devon, CHOPE, 221; France, MAYAUD, 854; Burma, TIN, 1383; Powhattan in Virginia, SWANTON, 1338.

Classification and Taxonomy.—New scheme of classification, WETMORE, 1471; American Pigeons, PETERS, 1037; Tinamiformes, v. BOETTICHER, 108; Townsend's type localities, BURNS, 169.

Phylogeny.—Races of *Gallus*, HERTWIG, 553; Garrulinae, STEGMANN, 1281; Locomotor evolution in Birds, MAGNE DE LA CROIX, 819.

ANATOMY.

General.—On the hind limbs of Ratitae, SUDILOVSKAYA, 1330; *Podoces* and the Corvidae, SUDILOVSKAYA, 1331.

Plumage and Epithelial Structures.—Feather growth, MONTALENTI, 915; JUHN & FRAPS, 644; Feather pigmentation, GREITE, 462; Metallic coloration, GENTIL, 419; Chemistry of flightless feathers, MARLOW & CALDWELL, 828; Histogenesis of feathers and endocrines, STELLA, 1302; Body feathers, STELLA, 1301; Flight feathers of *Bonasa*,

TOWERS, 1397; Plumage development, Raptore, SUMNER, 1332; Crest of *Numida*, KŘÍŽENECKÝ, 691; Bills of Parrots and Birds-of-Prey, BOUBIER, 118; New method for recording wing formula, EYKMAN, 367a.

Nervous System and Sense Organs.—Cerebellum, LISI, 747; Brain, *Corvus*, WALLENBERG, 1452; Cranial nerves, KUROTU, 705; Eye, *Athene*, ROCHON-DUVIGNEAUD, 1131; Semi-circular canals, TURKEWITSCH, 1411; Taste organs and papillae, SZYMONOWICZ, 1346.

Osteology.—Temporal bone, BROCK, 141; Cervical vertebrae, v. SIVERS, 1240; General osteology, *Emeus*, BENHAM, 74; *Puffinus*, MAYAUD, 852; *Mullerornis*, LAMBERTON, 715.

Myology.—Wing, KOLDA, 681; Tracheal-syringeal muscles, TERESA, 1367.

Alimentary Canal.—Tongue, FARAGIANA, 372; Tongue and hyoid in Picidae, STEINBACHER, 1290; Palate markings, *Alauda*, ARMITAGE, 29; Alimentary canal, Turdidae, CLARA, 224; Crop, *Pterocles*, NIETHAMMER, 976; Stomach, Psittacidae, STEINBACHER, 1289; Liver cells, DALTON, 270; Islands of Langerhans, BENAZZILENTATI, 73; Cloaca, TORTONESE, 1395.

Organs of Circulation and Blood.—Arteries of head and neck, GRZIMEK, 486; Serological individuality, WIENER 1481.

Genital Organs.—Testis, SCACCINI, 1181; Spermatozoon, ADAMSTONE & CAREL, 2; Right ovary, KUMMERLÖWE, 695; Bilateral ovaries in Birds-of-Prey, FITZPATRICK, 380; Size of comb and gonads, GUTOWSKA, 489.

Other Organs.—Syrinx, Owl, MILLER, 896; Pharynx and trachea, *Aethia*, PORTENKO, 1069; Paracarotid gland, WATZKA, 1462.

Cytology.—Melanocytes of epidermis, VILTER, 1433; Chromosome numbers, MATTHEY, 849; Chromosomes, Turkey, SOKOLOV & others, 1255; *Pavo* × *Gallus* hybrid, TINIakov, 1387.

Weight nad Growth.—In young Raptore, SUMNER, 1332; Growth, weight and sex maturity, AXELSSON, 33; Weight and measurement in live birds, WETHERBIE, 1468; Weight, Argentine Birds, FLORA, 378; Weight variation, *Zonotrichia* and *Passerella*, LINDSALE & SUMNER, 745, 746.

PHYSIOLOGY.

General.—Physiology and field work, HUXLEY & HOWARD, 601.

Plumage.—Pigmentation and feather growth, JAAP, 612; Hormones and feather growth, STELLA, 1302, 1303; Molt experiments, WOITKEWITSCH, 1503-1506, 1508; ZAWADOWSKY & others, 1545; Temperature and pigment, LANDAUER, 719; Thyroid and pigment, VILTER, 1432.

Nervous System and Sense Organs.—Brain, VISSER & RADEMAKER, 1438; Vision, BIERENS DE H., 97; RABAUD & VERRIER, 1091; TAKASHI, 1350; VANDERPLANK, 1422; Taste, ENGELMANN, 361.

Ossification.—General, STUDITSKIY, 1328; Ossification of marrow, KYES & POTTER, 706.

Respiration and Circulation.—Respiration, FRAENKEL, 392; GOTO, 448; HENRY & others, 545; Vos, 1446; WALTER, 1454; Air-sacs, PLATIFOL & SCHARNKE, 1056; SCHARNKE, 1186; Heart in embryo, MURRAY, 949; Blood, LANDAUER & DAVID, 720; THOMSEN, 1373; GRAAM, 449; Heart and elevated metabolism, BOAS & LANDAUER, 104a.

Metabolism and Assimilation.—Digestion, MANGOLD, 823; MANGOLD & RÜDIGER, 825; MANGOLD & BRÜGGMANN, 824; SALGUE, 1164; STEVENSON, 1305; STOLZ, 1310; STOLZ & BRÜGGMANN, 1311; Stomach hormones, NOLF, 980; Carbohydrate metabolism, DOUHOFFER, 326; Gas metabolism, FONBERG, 385; Metabolism and temperature, RIDDLE & others, 1113.

Muscles and Movements.—MAGNAN & PLANIOL, 818; v. SIVERS, 1240.

Reproduction.—General, RIDDLE & BRAUCHER, 1112; Ovulation, WARREN & SCOTT, 1460; Yolk sac and amnion, ALIBERTI, 9; REMOTTI, 1101, 1102, 1103, 1104; TROTTI, 1401, 1402; ZANONI, 1543; Vitamin deficiency and testis, ADAMSTONE & CARD, 3; Temperature and humidity effects on hatching, ROMANOFF, 1139; Broodiness hormones, WODZICKI, 1500; Gonads and plumage, v. OORDT, 992.

Miscellaneous.—Flight of Humming birds, KNOLL, 677; Migration and sex hormones, SCHILDMACHER, 1195

Experimental Physiology: Grafts and in Vitro Experiments.—STUDITSKIJ, 1328; WEISS, 1465; WOITKEWITSCH & NOWIKOW, 1507.

Experimental Physiology: Castration and Similar Experiments.—HOROWITZ, 586; SCOTT & PAYNE, 1219; Hypophysectomy, HILL & PARKES, 567; HILL & others, 568.

Experimental Physiology: Effects of Light and Injections.—MIYAZAKI, 901; BENOIT, 78; HIGGINS & others, 563; CHAMPY, 200; COOK & others, 244.

Endocrines and Hormones.—Thyroid, GERICKE, 423; PRAWOCHEŃSKI & SLIZYŃSKI, 1078; WOITKEWITSCH, 1503-1506; ZAVADOVSKY, 1546; Hypophysis, ZAKOLSKA, 1541; Sex hormones, EVANS & SIMPSON, 367; KABAK, 647; v. OORDT, 991; v. OORDT & JUNGE, 993; SCACCINI, 1181; VACEK, 1418; Other hormones, WEISS, 1464; LEHMANN, 736; MONTALENTI, 916.

Biochemistry.—Bird's beak, v. KRIPP, 690; Wattle pigments, LOUVIER, 772; Blood calcium, LASKOWSKI, 724; Muscle, MORAES & CASIER, 928; Lipochromes, BROCKMANN & VÖLKER, 141A, VÖLKER, 1444; Dinitrophenol, COTTE, 252; Serum phosphatase, COMMON, 235; Egg and egg-shell, McGOWAN, 802; GLASER & PIEHLER, 438; ROMANOFF, 1140; SØRENSEN, 1263; NISHIMOTO, 978; YOKOYAMA, 1539; SCHAUBLE & others, 1184.

Biophysics.—Feather colour, RAMAN, 1095; Hen's egg, SMITH, 1244; BALDES, 44.

EMBRYOLOGY.

Early Stages.—KOPSCH, 683, 684; Orientation, CAVERS & HUTT, 196; Parablast, TUR, 1409; Endocrine effects on early embryos, BRENNEMAN, 135.

Plumage and Epithelial Tissues.—Feather development, NOWIKOW, 983; SNESSAREW, 1251; WOITKEWITSCH, 1503-1506; Scales, feathers, hairs, MIRANDA-RIBEIRO, 930; Pigment, *Coturnix*, KARAMURA, 651; Indications of teeth, CRAIG, 256.

Nervous System and Sense Organs.—Central nervous system, HAMBURGER, 498; Corpus striatum, DURWARD, 341; Hypophysis, FRIEDMAN, 393; Nerve fibres, GOLUB, 444; WEISS, 1435; Columella, FOLENA, 384.

Bones and Muscles.—Skull, *Anas* DE BEER & BARRINGTON, 66; Neck muscles, PILATI, 1048; Tracheal and syringeal muscles, TERESA, 1367; Wing, WARREN, 1458; Knee joint, FELL & CANTI, 375; Limbs and their innervation, BRON, 145; Regulation mechanism of bone-growth, STUDITSKY, 1329.

Organs of Circulation.—Blood vessel of head, HUGHES, 594; Blood cells, LEPESCHINSKAYA, 737.

Genetal and Accessory Organs.—Vitellogenesis, MARZA, 837.

Miscellaneous.—Respiration in embryo, REMOTTI, 1104; Esophagus, TROTTI, 1403; Hepatic and pancreatic tissue, SANDSTROM, 1178; Behaviourism, response to stimuli, TUGE, 1408.

Experimental Embryology.—Effects of pressure, GALLERA, 412; Chorio-allantoic grafts, SANDSTROM, 1177, 1178; Culture tissue, TAVANI, 1355; Effect of X-rays, CROW, 262; Temperature effects in incubation, GRODZINSKI, 472; KAUFMAN, 650; Effects of wing extirpation, HAMBURGER, 498; Embryonic induction, WADDINGTON, 1448; Secondary sex characters and sex hormones, KECK, 652.

Embryology of Special Forms.—Penguins, PARSONS, 1011.

ETHOLOGY.

General Habits and Local Field Observations.—Chinese Turkestan, LUDLOW & KINNEAR, 786; French Sahara, BATES, 57; Nigeria, GOLDING, 443; Angola, BRAUN, 134; Tanganyika Territory, LYNES, 793; Portuguese East Africa, VINCENT, 1437; India, BAKER, 42, 43; ALI, 8; New Britain, MEYER, 888; New Zealand, PORTER, 1071; Argentina, DINELLI, 312; KRIEG, 689; Trinidad, ROBERTS, 1124.

General Habits of Single Species or Groups.—*Phasianus*, C. Asia, SCHÄFER, 1183; *Perdix* in U.S.A., YEATTER, 1535; *Scadafella*, HEILFURTH, 534; *Charadrius*, SPINGARN, 1271; *Aquila*, GILBERT, 431; *Caprimulgus* and *Cinclus*, MADON, 813; *Troglodytes* at St. Kilda, HARRISON & BUCHAN, 517; *Locustella*, WALPOLE-BOND, 1453; *Melospiza*, NICE, 972.

Miscellaneous Habits.—Roosting habits, GOETHE, 442; HEYDER, 554; MARPLES, 829; MOFFAT, 902a; Social habits and flocking, MASURE & ALLEE, 838; GANNON, 413; KINSEY, 664; Homing, LINCOLN, 741; WODZICKI & WOJTUSIAK, 1502; Orientation, MEISE, 874; Diving habits, *Gallinula*, S. SMITH, 1247; In *Cinclus*, DE VOGUÉ, 1441.

Territorial Habits and Instincts.—HUXLEY, 598; MOUNTFORT, 937; NICE, 969; NETHERSOLE-THOMPSON, 962; In *Podiceps*, VENABLES & LACK, 1427; *Melospiza*, NICE, 970; *Melizophilus*, VENABLES, 1426.

Food Habits: General.—Palatability of Insects, JONES & others, 630; Digestion experiments, STEVENSON, 1305; Sandgrains in stomach of Finches, INUKAI & IKEDA, 608; Pellet rejects, *Bubo*, CARPENTIER, 187; Drinking habits, ALLARD, 12; GORDON, 447.

Food Habits: Local Observations.—In Spitsbergen, HARTLEY, 522; Iceland, ROBERTS, 1122; Spain, LLETGET, 750; New South Wales, McKEOWN, 807; Argentina, ZOTTA, 1556; N. American Waterfowl, SCHEFFER, 1191.

Food Habits: Single Species or Groups.—*Lyrurus*, FETISOFF, 377; *Tetrastes*, FORMOSOV, 388; *Geopelia*,

MANUEL, 827; *Mergus*, MUNRO & CLEMENS, 946; Owls and Birds-of-Prey, UTTENDORFER, 1417; *Falco*, ALCORN, 4; *Asio*, GERBER, 422; TINBERGEN, 1384; *Athene*, TINBERGEN & BROEKHUYSEN, 1385; *Strix*, SCHNURRE, 1200; *Platycercus*, BRIDGEWATER, 136; *Hirundo*, THOMAS, 1372; *Ferminaria*, BRUNER, 160; *Turdus*, FLINTOFF, 383; *Bombycilla*, GRESCHIK, 463; *Lanius*, MADON, 814; *Munia*, MANUEL, 826; *Corvus*, HERING, 546; NELSON, 960.

Migration: General Works and Problems.—General Work, BOULTON, 120; Genetics and migration, FRIELING & others, 406; Light on origin shewn by bird-ringing, SCHÜZ, 1208; Migration and evolution, PROMPTOFF, 1082; Migrations of Fishes and Birds, CATHELIN, 193; Autumn flights, DROST, 328; Sea birds and ocean currents, BROOKS, 150; Long and short distance flights, LÖNNBERG, 767; Migration and sex hormones, SCHILDMACHER, 1195; DESSELBERGER & STEINBACHER, 308; GIERBERG & STADIE, 429; Methods used in Heligoland, DROST, 329; Experimental orientation and homing, RÜPPEL, 1155; Influence of solar cycles, WING, 1489, 1490; Influence of wind and weather, KOCH, 679; McCREARY, 796; Age at which birds migrate, BAUDOUIN, 60; Sex statistics of migrating Ducks, FRIELING, 405; Routes and fronts, GEYR v. S., 425; Routes across Switzerland, HEILFURTH, 532; Routes across Mediterranean, STEINFATT, 1297.

Migration: Local Observations.—British Is., WITHERBY & LEACH, 1499; Staffordshire, HANSON, 505; Lincolnshire, HAIGH, 492; PYE, 1087; Norfolk, RIVIERE, 1118; S. SMITH, 1248; Ireland, WILSON & BOURKE, 1488; Holland, v. DOBBEN & MAKINK, 316, 316a; Denmark, LIGHTS, HÖRRING, 588; Saxony, FRIELING, 404; Silesia, STADIE, 1276; SONNABEND, 1261; Finland, BOOK, 114; PYNÖNEN, 1088; Czechoslovakia, LOOS, 768; Poland, SOKOŁOWSKI, 1258; Lybian desert, MOREAU, 929; Asia Minor, KUMMERLOWE & NIETHAMMER, 697; Baluchistan, CUMMING, 263; China, WILDER, 1483; New South Wales, GILBERT, 432; Louisiana, McILHENNY, 803; Michigan, TYRRELL, 1415; WOOD

& TINKER, 1514; Pennsylvania, POOLE, 1067; Greenland p. 31, PEDERSEN, 1019.

Migration: Single Species or Groups.

—*Perdix*, GROTE, 484; *Coturnix*, SCHÜZ, 1210; Antarctic Penguins, STEWART, 1306; *Larus*, DOPPELMAIR, 325; EATON, 345; LINCOLN, 742; PONCY, 1065; RESÜHR & ALBERTSEN, 1107; SCHÜZ, 1215; *Sterna*, TEKKE, 1364; *Numenius* and *Vanellus*, DROST & SCHÜZ, 330; *Vanellus*, BAUDOUIN, 59; *Charadrius*, TISCHLER, 1389; *Scolopax*, STADIE, 1275; *Grus*, HEYDER, 556; HILDEBRANDT, 566; *Ciconia*, HAVERSCHMIDT, 527; GEYER v. S., 426; SCHÜZ, 1213; Ducks in Switzerland, CORTI, 248; *Anas*, VÄLIKANGAS, 1419; *Phalacrocorax*, v. SPIESS, 1270; *Haliaeetus*, SCHÜZ, 1209; *Falco*, KUMMERLÖWE & NIETHAMMER, 699; Australian Swifts, BRIDGEWATER, 137; *Hirundo*, TOM DIEK, 309; VIERECK, 1428; *Dumetella*, GILL, 434; *Eri-thacus*, PAYN, 1015; *Turdus*, EICHLER, 351; *Bombycilla*, SCHÜZ 1212; *Parus*, RÜPPEL, 1156; *Dendroica*, BURLEIGH, 167; *Motacilla*, KUMMERLÖWE & NIETHAMMER, 699; *Carduelis*, BOUMA & KOCH, 123; *Fringilla*, DAANJE, 235; v. BOCHMANN, 105; *Hesperiphona*, MAGEE, 816; *Passer*, NICHOLS, 974; *Passerella*, BROWN, 151; *Spizella*, LASKEY, 722; *Sturnus*, ECKE, 347a; THOMAS, 1371; *Garrulus*, KÜCHLER, 692; *Trypanocorax*, REGNIER, 1099.

Bird-ringing and Recovery of Ringed Birds.—In British Is., WITHERBY, 1493, 1494; WITHERBY & LEACH, 1499; Ireland, HUNTER, 595; Holland, BOUMA & KOCH, 123a; BOUMA & others, 124; LÜKEN, 787; SLEIJSER, 1242, 1243; Germany, SCHÜZ, 1214; Bavaria, SCHNABEL, 1199; Austria, WINKLER, 1491; Czechoslovakia, JIRSÍK, 624; RICHTER, 1111; Sweden, LÖNNBERG, 763; MAGNUSSEN, 820; Iceland, BJÖRNSSON, 100; Finland, VÄLIKANGAS & HYTÖNEN, 1420; Nova Zemlya, ESIPOV, 365; Spain, WITHERBY, 1492; Italy, MOLTONI, 910; TOSCHI, 1396; Yugoslavia, PONEBŠKA, 1066; India & Russia, PRATER, 1077; Louisiana, McILHENNY, 803; Tennessee, LASKEY, 723.

Flight.—General mechanics, MAGNAN, 817; Speed of flight, RATHBUN, 1096;

DARLING, 277; Flight of Humming birds, KNOLL, 677; Order and marshalling of flight, WÜST, 1521; Flightless birds, BOUBIER, 117; Flight and flightlessness of *Tachyeres*, LOWE, 783.

Ornithophily.—v. D. PIJL, 1047; SALOMONSEN, 1172.

Sexual and Parental Relations.—Courtship and display, *Centrocercus*, HORSFALL, 589; *Bonasa*, ALLEN, 13; *Lyrurus*, RUTTEN, 1160; *Sterna*, CHRISTOLEIT, 222; Trochilidae, DAVIS, 289; *Colaptes*, JOHNSON, 626; *Eri-thacus*, DOBBRICK, 319; *Scotioptera*, FRIEDMANN, 402; Polygamy in *Emberiza*, RYVES, 1161; Brooding marks and patches, KOLTHOFF, 682; Habits of Hornbills, MOREAU, 932.

Nidification and Oology: General.—DE VRIES, 1447; Biochemistry of egg-shell, MCGOWAN, 802; Influence of sperm on egg-colour, GROEBBELS, 473; Causes of decrease in size and weight, DIETRICH, 311; Varying nesting dates in same species, JOURDAIN, 636; Non-breeding arctic birds and the Lemming, BERTRAM & others, 92; Great Tit hatching Blue Tit eggs, MARPLES, 830.

Nidification: Local Observations.—France, v. OORDT, 989; Persia and Transcaspia, GROTE, 477; Chinese Turkestan, LUDLOW & KINNEAR, 786; Japan, KOBAYASHI & ISHIZAWA, 678; Portuguese East Africa, VINCENT, 1437; Tanganyika Territory, LYNES, 793; India, BAKER, 41, 42; Coorg, BETTS, 94; Hyderabad, ALL, 8; Perak, EDGAR, 348; Formosa, HORIKAWA, 582; Timor and Waigiou, SCHÖNWETTER, 1203; Argentina, BELCHER, 68; DAGUERRE, 267; Brazil, VELHO, 1425; Trinidad and Tobago, BELCHER & SMOOKER, 69; Georgia, U.S.A., GREENE, 458; Manitoba, TAVERNER & SUTTON, 1360; Greenland, BERTRAM & others, 92; PEDERSEN, 1019.

Nidification: Single Species.—BAILEY, 39; BARNARD, 52; BOWLES & DECKER, 126; BOYD, 129; BROWN, 156; CHAVIGNY, 216; CLAUDON, 229; COOMANS DE R., 245, 246, 247; DELACOUR, 294; DIXON, 314; D'OMBRAIN, 323; ELLIOTT, 356; ENGLISH, 363; FORD, 386; GILBERT, 430, 431; GREENWAY, 460; GRAULACH, 464;

GROMME, 475; GROTE, 479, 480, 481; GUGG, 487; HEDEMANN, 531; HEILFURTH, 533, 534; HINDWOOD, 569, 570, 571; HOESCH, 573, 574; HYTÖNEN, 602; JEWITT, 620; JOURDAIN, 634, 635; LINDSAY, 743; LLEWELYN, 752; LOCKLEY, 756; LORD, 770; MCGILP, 798, 799; MARSHALL, 833, 835; MEIKLEJOHN, 887; MEISE, 873; MEYER, 886; MICHAEL, 891; MOUSLEY, 939, 941; MURIE, 947; NAYAR, 958; PALMGREN, 1003; PEREYRA, 1025, 1026; PITMAN, 1054; POTTER, 1074; POZZI, 1076; PRESCHER, 1079; RUTHKE, 1157; RYVES, 1161; SCHAEFER, 1182; SCHMAUS, 1197; SCHNURRE, 1201; SCHORGER, 1204; SCHUHMACHER, 1205; SHAW, 1234; SKUTCH, 1241; W. P. SMITH, 1250; SPENNEMANN, 1266-1269; STEINFATT, 1292, 1294, 1296; STOLL, 1309; STRIBOS, 1328; TEMPERLEY, 1365; TREMOLERAS, 1400; TWOMEY, 1414; WILDER, 1484; WITHERBY, 1495; WÜST, 1520; YEATES, 1534; ZIESCHANG & CREUTZ, 1548; ZIMMERMANN, 1555.

Brood Parasitism.—General evolution, MAKATSCH, 822; A critical note, SPENNEMANN, 1267; Inheritance of egg-colour in Cuckoo, HUSKINS, 597; In *Cuculus*, DE CHAVIGNY, 217; *Clamator*, GODFREY, 440; HOESCH, 575; *Chalcites*, MCGILP, 800; *Molothrus*, CROOK, 261; HICKS, 558; FRIEDMANN, 397, 403; HANNA, 503.

Voice and Song: General.—Song and the endocrines, PRAUSNITZ, 1077; Methods of recording, METFESSEL, 384; Spring and winter song, MOFFAT, 902; Early morning song, PAATELA, 998; KOUL, 685; Critical remarks in Ruppell's work, SCHMID, 1198; Javan bird-song, BEZEMER, 93; American Bird-song, BRAND, 133.

Voice or Note of Single Species.—*Rallus*, DATHE, 280; *Botaurus*, REBOUSSIN, 1097; *Cathartes*, ALLARD, 11; *Myiochanes*, ALLARD, 10; *Iridoprocne*, WEYDEMAYER, 1473; *Sialia*, LUMLEY, 789; WEYDEMAYER, 1374; *Acrocephalus* and *Locustella*, SICK, 1239; *Phylloscopus*, JOUARD, 632; *Lullula*, LABITTE, 709; *Penthestes*, LUMLEY, 788; *Certhia*, WÜST, 1523; *Fringilla*, HOFFMANN, 575a.

Psychology.—Emotional life, FRIEDMANN, 401; Visual orientation,

BIERENS DE H., 97; Hypnosis and akinesis, WARNEKE, 1457; Fighting at a mirror, RITTER & BENSON, 1117; Experiments with eggs of nesting birds, TINBERGEN, 1386; Critical note on Bierens de H., EHRLHARDT, 350.

Ecology: General Studies.—Birds in mangrove swamps, MARSHALL, 834; Environmental control of House Wren, KENDIGH, 657; Bird and flower ecology, PORSCH, 1068; Squirrel and Crossbill relations in Russian forests, FORMOSOV, 389; *Asio* and the Vole, *Macrotus*, TINBERGEN, 1384; Status of Gulls in Holland, v. DOBBEN, 315a; Survival ratio in nests of *Iridoprocne*, Low, 776.

Ecology: Regional Studies.—Lake shore Windermere, MOON, 918; Cevennes, France, MEYLAN, 890; Albula region, Switzerland, ZELLER, 1547; Iceland, LACK, 711; ROBERTS, 1122; Finland, CAJANDER, 181; Lakes of C. Russia, GLADKOV, 436; GLADKOW & PTUSCHENKO, 437; Usambara Mts., Tanganyika Terr., MOREAU, 931; Mallee county, S. Australia, CAMPBELL, 183; Argentina, KRIEG, 689.

Effects of External Conditions.—Fluctuations of bird population in Tennessee, SHAVER, 1228; In British Guiana, MIDDLETON, 893; Census of Waterbirds in N. London, HUXLEY & BEST, 599; Of Swallows near Manchester, CRAMP & WARD, 257; Rooks in Gloucestershire, YAPP, 1533; Hawks in U.S.A., NICE, 973; Phaenology, Finland, REUTER, 1108; Effects of cold in C. Germany, GERBER, 421; Effects of land settlement, BARNARD, 53; SCHIERMANN, 1194; Sewage output on Elbe and bird life, PETERS, 1039; External environment and plumage colour, MEINERTZHAGEN, 868; DÉMENTIEFF, 300; Colonization of Saltee Is., Ireland, POLLARD, 1060.

Mimicry.—Experiments with mealworms, MUHLMANN, 943.

Pathology.—London Zool. Gardens, report, HAMERTON, 499; Respiratory diseases, SCHALEN & BEACH, 1185; Aspergillosis in Penguins, HOLZ, 578; Psittacosis, MAYER & EDDIE, 885; Bacillus infestation, URBAIN, 1416; Lead poisoning, HOWARD, 591; Scurvy-like disease, DAM, 271; CRIBBETT & CORRELL, 260; Use of anaesthetics in bird surgery, MUELLER, 942.

Parasites.—Diet and parasites in *Colinus*, NAGEL, 956.

Longevity.—BERTHET, 91; GARDNER & HURST, 414; GARNIER, 416; NICE, 971.

Mortality and Destruction.—Oilmenace, LÖNNBERG, 764; PORTIER & RAFFY, 1073; Automobile mortality, BAUMGARTNER, 61; HENDRICKSON, 541; Nest mortality, BARON, 54; Nestling mortality, Swallows, EMMET, 360; Parasite infestation, *Bonasa*, CLARKE, 227; General causes of extinction, Queensland Birds, BARNARD, 53; *Pterodroma* in Australia, WHITLEY, 1477.

AETIOLOGY.

Evolution.—Critical note on natural selection, MOFFAT, 902; The Galapagos problem, SWARTH, 1339; Effects of anger in evolution, F. M. ALLEN, 16.

Variation.—Mutation in *Gallus*, QUINN, 1090; Subspecific variation and hurricanes, TOMKINS, 1394; Dichromatism in Ardeidae, BERLIOZ, 80; Albinos, DURAND, 340; KLEINSTÄUBER, 674; ZIMMERMANN, 1554.

Teratology.—Creepers Fowl studies, LANDAUER, 718; Yolkless eggs, BENOIT, 77; 3-legged Duck, SHAW, 1230; Plumage abnormality, *Corvus*, TOLDT, 1392; Two pairs testes, HARNLEY, 508; Experimental and artificial monsters, SZEFSSENWOL, 1345; WOLFF, 1509, 1510, 1511, 1512.

Hybrids.—General genetic studies, DUNCKER, 336; Experimental work, *Crossoptilon*, GHIGI, 427; Hybrid *Pavo* × *Gallus*, TINIAKOV, 1387; *Lagopus* × *Phasianus*, LOWE, 780; Doves, TAIBEL, 1347; Ducks, BALL, 45; *Colaptes*, TAVERNER, 1359; *Dendroica*, BRODKORB, 142; *Passer*, MEISE, 876.

Genetics.—Work on Fowls, AXELSSON, 33; CARIDROIT & REGNIER, 185; DUNN & LANDAUER, 338; FISHER, 379; GERICKE, 424; KRALLINGER, 687; QUINN, 1090; RÉGNIER, 1100; SCHMALHAUSEN, 1196; SCHWARZ, 1216; WARREN, 1459; Doves, TANGE, 1353, 1354; Ducks, JAAP, 611. *Melospittacus*, STEINER, 1291.

Intersex and Gyandromorphs.—COOK & others, 244; ESPINASSE, 366; HUXLEY & BOND, 600.

Sex Problems.—Secondary sex characters, CHAMPY, 200; KECK, 652; Effects on colour and adornment, HINGSTON, 572.

GEOGRAPHY AND FAUNAS.

General Problems.—Zoogeographical status of Abaggar Plateau, MEINERTZHAGEN, 869; Origin and evolution of the Galapagos avifauna, SWARTH, 1339; Origin of the West Indian avifauna, BOND, 112; Intergradation of life-zones in S. Carolina, PICKENS, 1046.

PALAEARCTIC REGION.

General.—DÉMENTIEFF, 302; DUNAJEWSKI, 333; HARTERT, 520; SALOMONSEN, 1175; STEGMANN, 1282.

British Islands.—ANON., 21; BOYD, 130; INGRAM & SALMON, 607; PYCRAFT, 1086; RICHMOND, 1110; WITHERBY, 1496.

English Counties.—Middlesex and London area, ANON., 18A; BAYNE, 63; HUXLEY & BEST, 599; MACPHERSON, 809; ROWBERRY, 1153; N. F. TICEHURST, 1381; Kent, HALE, 495; HARRISON, 514; PHILIP, 1042; Surrey, SWAYNE, 1343; Sussex, N. F. TICEHURST, 1380; Hertfordshire, FOSTER, 391; Essex, GLEGG, 439; OWEN, 996, 997; Hants. and Dorset, JOURDAIN, 642; Wilts., ANON., 25; Gloucestershire, MORLEY, 934; YAPP, 1533; Somerset, LEACH, 733; TUCKER, 1405; Devon, BUTTERS, 170; CHOPE, 221; PALMER, 1001; PRING, 1081; Cornwall, RYVES, 1162; Suffolk, BIRD, 99; COOK, 242; Norfolk, BUXTON, 176; LONG, 759; RIVIERE, 1118; Scolt Head I., TURNER, 1412; Lincolnshire, COX & MAY, 255; HAIGH, 492; PYE, 1087; ROEBUCK, 1135; Cambridgeshire, LACK, 710; Derbyshire, JOURDAIN, 640; WAIN, 1450; Staffordshire, BRYAN, 161; DUTTON, 342; HANSON, 505; T. SMITH, 1249; Worcestershire, BEESTON, 67; Shropshire, FORREST, 390; Cheshire and Lancashire, COWARD, 254; Lancashire, CRAMP & WARD, 257; WHITTAKER,

1478; Yorkshire, BOOTH, 115; Westmoreland, MOON, 918; Cumberland, GRAHAM, 450; Northumberland, COURTENAY, 253; NOBLE, 979.

Scotland.—EDWARDS, 349; "Midlothian Orn. Club," 894; RINTOUL & BAXTER, 1116; Berwickshire, PORTEOUS, 1070; Mid-Lothian, HAMILTON, 500; Ayrshire, PATON, 1014; Caithness, BAIN, 40.

Ireland.—WILSON & BOURKE, 1488; Co. Wexford, POLLARD, 1060.

Smaller British Islands.—Orkney and Shetland, LOW, 774; Orkney, ROBINSON, 1129; SERLE, 1221; St. Kilda, HARRISSON & BUCHAN, 517; HARRISSON & LACK, 519; North Uist, BEVERIDGE, 95; South Uist, MEINERTZHAAGEN, 868; Arran, WATT, 1461; I. of Man, MADOC, 812; RALFE, 1092, 1093, 1094; Saltee Is., POLLARD, 1061; Bardsey I., LLOYD, 754; Skokholm, LOCKLEY, 755; Lundy, DAVIS, 287; I. of Wight, MOREY, 933; Jersey, MAYAUD, 853.

France.—JOUARD, 632; MAYAUD, 855, 861; MENEGAUX, 882; OLIVIER, 987; v. OORDT, 989; Alsace, HEIM & B., 535; Bouches-de-Rhône, v. OORDT & TUITES, 994; Cevennes, MEYLAN, 890; Calvados, COSTREL DE C., 249; Creuze (Marche), D'ABADIE, 1; Finistère, EBLÉ, 347; LEBEURIER & RAPINE, 734; Hautes-Pyrénées and Lozère, ROCHON-DUVIGNEAU, 1130; Haute-Savoie, PONCY, 1062; Ille-et-Vilaine, LAMI, 717; Normandie, COSTRELL DE C., 250; Seine-Inf., HAINARD, 493; LABITTE, 707; LASNIER, 725, 726; Seine-et-Marne, DALMON, 269; LASNIER & DALMON, 727; Somme, COCU, 233; Tarn, MAYAUD, 856; Vendée, MAYAUD, 859; Vosges, CLAUDON, 228, 230.

Germany. — BRINKMANN, 139; PETERS, 1038; KLEINSCHMIDT, 671; WENDLAND, 1467; Westphalia, GOETHE, 441; PEITZMEIER, 1020; Hamburg distr., DIETRICH, 310; Schleswig-Holstein, LUNAU, 791; Mecklenburg, CLODIUS, 232; LÜBCKE, 785; Brandenburg, PEUS, 1041; Pomerania, BANZHAF, 50; ROBIEN, 1126; West Prussia, DOBRICK, 317, 318; East Prussia, HORNBERGER, 583; LUTTSCHWAGER & MÜLLER, 792; SCHÜZ, 1211; Silesia, BRINKMANN, 140;

Saxony, DATHE, 278, 279, 281; FRIELING, 404; HEYDER, 555, 556; KRAMER, 688; MAKATSCH, 821; RECHENBERGER, 1098; VIETINGHOFF-RIESCH, 1429, 1430; ZIESCHANG & CREUTZ, 1548; Thuringia, GUGG, 487; HILDEBRANDT, 566; Bavaria, EICHLER & others, 352a; MÜLLER, 944; MURR, 948; SCHNABEL, 1199; SOMMERFELD, 1260; WÜST, 1522, 1524; Württemberg, LÖHRL, 758; Trischen I., mouth of Elb, WENDEHORST, 1466; Heligoland, ALEXANDER, 6, 7; KELM, 653.

Austria.—DELAMAIN, 297; HELLMAYR, 537; WINKLER, 1491.

Hungary.—STEINFATT, 1295.

Czechoslovakia.—BALTHASAR, 45a; DANIHELKA, 275; JIRSÍK, 622; KÖHLER, 680; LOOS, 768; MIKLIK, 895; MUSÍLEK, 951, 952, 953, 954, 955.

Switzerland.—COMTE, 239; CORTI, 248; HEILFURTH, 532; NOLL, 981; PONCY, 1063, 1064; POTY, 1075; ZELLER, 1547.

Luxembourg.—FERRANT, 376.

Holland.—BROUWER, 152, 153; BROUWER & HAVERSCHMIDT, 155; O. D. COUL, 252a; v. DOBBEN & MAKINK, 316; DRIJVER, 327; ELJKMAN, 354; HAVERSCHMIDT, 524-528; KOCH, 678a; KUPURUS & THIJSE, 700; v. D. MEER, 866, 866a; SLEIJSER, 1243, 1245; STEENHUIZEN, 1280; SWAEN, 1337.

Denmark.—EICHNER, 353; FRØLICH, 407; HOLM, 576; HOLSTEIN, 577; HORNEMAN, 585; HØRRING, 587, 588; JACOBSEN, 615; JENSEN, 617; JESPERSEN, 618; KJÆR, 670; MEINHARDT, 870, 871; SALOMONSEN, 1168.

Sweden.—BERNSTRÖM, 87; BYMAN, 177; HANNERZ, 504; LÖNNBERG, 762-767; PERSSON, 1030.

Baltic Islands.—Filsand I., XAVER & ZEDTWITZ, 1526.

Northern and Arctic Islands.—Franz-Joseph Land, DEMME, 306; Spitsbergen, HARTLEY, 522; Faroe, HERRING, 588; SALOMONSEN, 1167; Iceland, BIRD, 98; BJÖRNSSON, 101; LACK, 711; LACK & ROBERTS, 712; ROBERTS, 1121, 1122; SAEMUNDSSON, 1163; TIMMERMANN, 1382.

Finland.—CAJANDER, 181; HORTLING, 590; HYTÖNEN, 602; MERIKALLIO, 883; NORDBERG, 982; PALMGREN, 1004; REUTER, 1108; VÄLIKANGAS & HYTÖNEN, 1420; VALLE & SUOMALAINEN, 1421.

Estland.—THOMSON, 1375.

Poland.—DOMANIEWSKI, 321, 322; DUNAJEWSKI, 334; SOKOLOWSKI, 1256; WODZICKI, 1501.

Russia.—BUTURLIN, 171; BUTURLIN & DEMENTIEV, 175; DANILOWITSCH, 276; PERSHAKOV, 1029; PTUSCHENKO & GLADKOW, 1084; Astrachan Steppes, VOROBIEFF, 1445; Black Sea, STEGMANN, 1283; Canin Pen., BANNIKOV, 49; Caucasus, TUROV & KRASOVSKY, 1413; Gorki Prov., PLESSKII, 1057; Kiev, CHARLEMAGNE, 210; Moscow Govt., POLIAKOV, 1059; Novaya Zemlya, VLADIMIRSKAYA, 1439; Orel Prov., GOBACHEV, 446; Petchora river, DMOHOWSKI, 315; Russian Carpathians, HRABÁR, 593; Volhynia, CHARLEMAGNE, 211; Wladimir Govt., GLADKOW & PTUSCHENKO, 437

Spain and Portugal.—BERNIS, 86; v. BOXBERGER, 128; LLETGET, 750, 751; STEINFATT, 1296.

Italy.—BELFANTI, 70; DINI, 313; GIACOMETTI, 428; MOLTONI, 907; NINNI, 977; SEVESI, 1225; TOSCHI, 1396; VANDONI, 1423; ZANGHERI, 1542.

Balkan Peninsula.—Yugoslavia, PONEBSKA, 1066; ZAPLATA, 1544; Dalmatia, DATHE, 282; Albania and Montenegro, v. FUEHRER, 408; Roumania, CĂTUNEANU, 194, 195; Bulgaria, HARRISON, 516; PATEEF, 1013; RENSCH, 1105; Macedonia, KATTINGER, 649; Turkey, KUMMERLÖWE & NIETHAMMER, 696; WAHBY, 1449.

Atlantic Islands.—Madeira, MATHEWS, 841.

Mediterranean Islands.—Balearic Is., MUNN, 945; Corsica, MOUILLARD, 936; Sardinia, FAVERO, 374; MOLTONI, 912; Sicily, ROKITANSKY, 1138; SCHIEBEL, 1192, 1193; Malta, DESPOTT, 307; Pantelleria, STEINFATT, 1297; Crete, ROKITANSKY, 1138.

North Africa.—Morocco, JOURDAIN, 641; NEMETH, 961; NEUMANN, 962a; Algeria, ARNAULT, 30; Tunisia, GUIRTCHITCH, 488; Tripoli, MOLTONI, 903, 911; Egypt, GAILLARD, 410, 411; KUENTZ, 693; Lybian Desert, MOREAU, 929; Fezzan, MOLTONI, 906; Ahaggar Plateau, MEINERTZHAGEN, 869.

Western Asia.—Asia Minor, KÜMMERLOWE & NIETHAMMER, 697, 698; NEUMANN, 695; Syria, NEUMANN, 962a; Baluchistan, CUMMING, 263.

Russian Asia.—BUTURLIN, 171, 174; BUTURLIN & DEMENTIEV, 175; MOLCHANOV, 903; Transcaucasia, BUTURLIN, 173; DÉMENTIEFF, 300; WOROBIEV, 1517; Kazakstan, STEGMANN, 1287; Semipalatinsk, SSELEWIN, 1273, 1274; Siberia, DÉMENTIEV, 303; STEGMANN, 1286; TKACHENKO, 1391; Transbaikalia, DOMANIEWSKI, 320; Siberian Arctic, STEGMANN, 1284; Yakutz, TUGARINOV & others, 1406, 1407; Indiguirka, MICHEL, 892; Anadyr, BELOPOLSKI, 72; PORTENKO, 1069.

Central Asia.—Chinese Turkestan, DÉMENTIEFF, 300; LUDLOW & KINNEAR, 786; Karakorum, MOLTONI, 904; SILLEM, 1239; Thian Shan, NEUMANN, 962a; Tibet, SCHÄFER, 1183; Mongolia, KOZLOVA, 686; SEYS & LICENT, 1226.

Eastern Palaearctic Asia.—Manchuria, KURODA, 703; LOUKASHKIN, 771; MEISE, 872; SEY & LICENT, 1226; Northern China, HENG & YUAN, 542; LA TOUCHE, 728; LEYS & LICENT, 1226, 1227; SHAW, 1233; WILDER, 1483.

Japan and Neighbouring Islands.—Japan, KURODA, 702; TAKA-TSUKASA, 1351; YAMASHINA, 1530; YAMASHINA & MUKANA, 1531; Saghalien, BUTURLIN, 174; YAMASHINA & YAMADA, 1532; Kurile Is., YAMASHINA, 1529.

ETHIOPIAN REGION.

General.—BANNERMAN, 48; BOWEN, 125; DELACOUR & E-BLANC, 296; GRANT & MACKWORTH-PRÆD, 452, 453, 454, 455; HAMPE, 502; M. PRÆD & GRANT, 808; SCLATER, 1218; VINCENT, 1436.

West Africa.—BANNERMAN, 46; FAIRBURN, 370; SALOMONSEN, 1170; Sierra Leone, BATES, 58; Gold Coast, BANNERMAN, 47; Nigeria, ANON., 23, 24; BANNERMAN, 47; C—., 178; "CHARADRIUS," 208, 209; GOLDING, 443; LOWE, 779; NEWTON, 966, 967; SAUNDERS, 1180; French West Africa, BATES, 57; French Equatorial Africa, BLANCOU, 104; Ubangi-Chari, BERLIOZ, 81; Chad region, PÉCAUD, 1018; Cameroon, BOUET, 119; Belgian Congo, VINCENT, 1435; LYNES & SCLATER, 794; Angola, BOULTON, 122; BRAUN, 134; LYNES & SCLATER, 791; SICK, 1238; STRESEMANN, 1323.

South Africa.—S.W. Afr. Protect., HOESCH, 573; Dyers I., Cape Prov., VINCENT, 1434; Zululand, ROBERTS, 1120; Transvaal, MOLTONI, 909; Southern Rhodesia, PRIEST, 1080.

Central and East Africa.—Mozambique, MOLTONI, 909; Port. E. Africa, VINCENT, 1437; Nyasaland, BANNERMAN, 47; MURRAY, 950; VINCENT, 1435, 1437; Northern Rhodesia, LYNES & SCLATER, 791; Tanganyika Territory, GROTE, 485; LYNES, 793; MEISE, 877, 880; MOREAU, 931; STRESEMANN, 1323; Kenya Colony, CHAPIN, 262; GRANVIK, 456; v. SOMEREN, 1259; WEBB, 1463; Uganda, PITMAN, 1053; v. SOMEREN, 1259.

North-East Africa.—Italian Somaliland, MOLTONI, 905; Darfur, MADDEN, 811.

Arabia.—KINNEAR, 663.

Madagascar and Dependent Islands.—Madagascar, LAMBERTON, 715; SALOMONSEN, 1165, 1169, 1173, 1174, 1176; Comoro and Seychelles, SALOMONSEN, 1169, 1176; RODRIGUEZ, MORTENSEN, 935.

INDIAN REGION.

General.—YEN, 1538.

Indian Empire and Ceylon.—BAKER, 41, 42; Punjab, WAITE, 1451; Kashmir, MOLTONI, 904; United Provinces, BRIGGS, 138; Central Provinces, D'ABRET, 266; Bombay Pres., NEUMANN, 965; Hyderabad, ALI & WHISTLER, 8; Madras Pres., BETTS, 93; WHISTLER, 1476; Ceylon,

HENRY, 534, 544; PHILLIPS, 1045; Bengal, INGLIS, 606; LAW, 731; MOONEY, 919; WHISTLER, 1375; Sikkim, INGLIS, 604, 605; Bhutan, KINNEAR, 660, 661; Munipur, GIMSON, 435; HIGGINS, 564; Burma, KINNEAR, 662; DE SCHAUENSEE, 1187.

Malaysia.—Malay Pen., RILEY, 1114; Perak, CHASEN, 213; EDGAR, 348; Sumatra, DUPOND, 339; JUNGE, 645; Borneo, COOMANS DE R., 247; HARRISON & HARTLEY, 518; RILEY, 1114; Java, COOMANS DE R., 245, 246; LUMMEL, 790; OLIVIER, 938; SCHOENMAKERS, 1202; SPENEMANN, 1265, 1267, 1268; Natuna Is., CHASEN, 213; Klapper I. nr. Java, STRESEMANN, 1322; Karimoen Djawa I., Java Sea, CHASEN & KLOSS, 215; Karimata Is., W. Borneo, CHASEN & KLOSS, 214; Christmas I. Ind. Ocean, CHASEN, 212; Palawan, BRODKORB, 143; Philippines, HACHISUKA, 491.

Indochina.—Cochin China, DAVID-BEAULIEU, 283; Siam, RILEY, 1114, 1115; ROGERS & DEIGMAN, 1136; DE SCHAUENSEE, 1188, 1189, 1190; H. M. SMITH, 1246; VIJAKICH, 1431.

South China.—LA TOUCHE, 728; Yunnan, TICEHURST, 1377; Szechuan, DYE, 343; MEISE, 872; QUENTIN, 1089; Kwangsi, YEN, 1537; Kweichow, YEN, 1536; Canton, MILLER, 899; Hong Kong, HERKLOTS, 547-552; PEREIRA, 1022, 1023; TAYLOR, 1363; Fukien, CHENG, 218; Formosa, HOKI-KAWA, 582.

AUSTRALIAN REGION.

New Guinea and Dependent Islands.—New Guinea, AUBER, 31; GREENWAY, 461; MEISE, 878; PALUDAN, 1007; STRESEMANN, 1320, 1321, 1325; New Britain, MAYR, 864; MEYER, 888; STRESEMANN, 1323; Lihir Is., off New Ireland, STRESEMANN, 1317, 1318; MEYER, 887; VUATOM, MEYER, 886; Molucca Is., SALOMONSEN, 1166; STRESEMANN, 1324; Timor and Waigiou, SCHÖNWETTER, 1203.

Australian Commonwealth.—Howchin, 592; MACK, 806; Queensland, BARKER, 51; BARNARD, 53; MARSHALL, 834, 836; MAYO, 863; YOUNG, 1540; Whitsunday I., Qsl., MARSHALL, 832; New South Wales,

ALTHOFFER, 17; BRYANT, 162; CAMERON, 182; CHISHOLM, 220; EMERSON & GANNON, 358; MCKEOWN, 807; Victoria, BARRETT, 55; BRYANT, 164; CHALK, 198; CHANDLER & others, 201; J. M. GRAY, 457; PARSONS & MCGILP, 1012; South Australia, BOEHM, 106, 107; BRUMMITT, 157, 158; CAMPBELL, 183; CHALMERS, 199; CLELAND, 231; COLLINS, 234; HARVEY, 523; HOOD, 579; MCGILP, 798, 799, 801; SUTTON, 1335, 1336; Western Australia, ROBINSON, 1127; WHITTELL, 1479, 1480.

New Zealand.—DEIGNAN, 293; FALLA, 371; OLIVER, 986; PORTER, 1071.

Pacific Islands.—DAVIDSON, 286; MAYR, 865; SALOMONSEN, 1171; Micronesia, YAMASHINA, 1528; Marshall Is., KURODA, 701; TAKATSUKASA & YAMASHINA, 1352.

NEOTROPICAL REGION.

General.—BRODKORB, 144; ZIMMER, 1549, 1550, 1551, 1552, 1553.

South America.—Tierra del Fuego, REYNOLDS, 1109; Mocha, Juan Fernandez, Chiloe and Falkland Is., CHAPMAN, 205; Argentina, BELCHER, 68; CASARES, 191; CASTELLANOS, 192; DINELLI, 312; KRIEG, 689; LAUBMANN, 729; PEREYRA, 1025; Paraguay, CONOVER, 240; Chili, SHAW, 1232; Bolivia, KELSO, 656; Peru, CARRIKER, 189; v. ROSSEM, 1150, 1151; ZIMMER, 1549-1553; Ecuador, FRIEDMANN, 400; MOORE, 920-924; Brazil, BERLIOZ, 83, 84; VELHO, 1425; Matto Grosso, STONE & ROBERTS, 1314; Bahia, PINTO, 1049, 1050, 1052; Para, CONOVER, 241; Venezuela, RÖHL, 1137; Colombia, MOORE, 920; Galapagos Is., P. R. LOWE, 784; SWARTH, 1339.

Central America.—Panama, v. ROSSEM, 1146; Costa Rica, v. ROSSEM, 1142; Salvador, v. ROSSEM, 1143, 1145, 1149; Nicaragua, v. ROSSEM, 1145; Honduras, MOORE, 926; Guatemala, v. ROSSEM, 1142.

West Indies.—BOND, 112; DANFORTH, 272; Trinidad, ROBERTS, 1124; Trinidad and Tobago, BELCHER & SMOOKER, 69; Grenada, FRIEDMANN,

400; Martinique, PETERS, 1034; Antigua, DANFORTH, 273, 274; Haiti and S. Domingo, BOND, 113; Cuba, BOND, 110; BRUNER, 159; RUTTEN, 1159.

NEARCTIC REGION.

(Including Mexico.)

General.—CHAPMAN, 204; OBERHOLSER, 984; PETERSON, 1040.

Mexico.—FRIEDMANN, 400; GRISCOM, 470; MOORE, 925; v. ROSSEM, 1142, 1150, 1151; Yucatan, LONG, 761; Vera Cruz, KELSO, 655; Jalisco, SAUNDERS, 1179; Sonora, MOORE, 926; v. ROSSEM, 1147.

Western United States.—California, DEGROOT, 292; GRINNELL, 465, 467; NEFF, 959; v. ROSSEM, 1144; STONER, 1315; WILLETT, 1485; Fallaron Is., SMITH, 1245; Oregon, GABRIELSON, 409; JEWETT & GABRIELSON, 621; OBERHOLSER, 985; Washington, BROWN, 155A, HALL, 493; KITCHIN, 667, 669; W. T. SHAW, 1254; Idaho, DAVIS, 290; HAYWARD, 529; Yellowstone Park, WRIGHT, 1518; Utah, COTTAM, 251; HAYWARD, 530; MILLER, 897; STANFORD, 1279; WOODBURY & BEHLE, 1515; Arizona, ANDERSON, 18; CAMPBELL, 184; JENKS, 618; v. ROSSEM, 1144; VORHIES, 1442, 1443; New Mexico, GRINNELL, 468; LITTLE, 748.

Middle United States.—Texas, DAVIS, 288; v. ROSSEM, 1148; Missouri, BENNITT, 76; Oklahoma, SUTTON, 1333; TROWBRIDGE & WHITAKER, 1404; Kansas, LONG, 760, 761; Iowa, DU MONT, 332; Wisconsin, GROMME, 475; SCHORGER, 1204; Minnesota, C. E. JOHNSON, 627; N. Dakota, MONSON, 914; Michigan, TYRELL, 1415; VAN TYNE, 1421; WARD, 1456; WIGHT, 1482; Illinois, FORD & others, 387; Indiana, FLEETWOOD, 381; HICKS, 561; TEST, 1368; Ohio, ALDRICH, 5; EARL, 344; GREENE, 459; HICKS, 560, 562; VAN TYNE, 1424.

Eastern United States.—Florida, CHAPMAN, 206; Georgia, BURLEIGH, 166; GREENE, 458, 459; South Carolina, ANON., 20; PICKENS, 1046; STONE, 1312; Tennessee, GARNIER, 415; SHAVER, 1228; SHAVER & CROOK, 1229; Kentucky, BAILEY, 38;

Virginia, HARPER, 510; West Virginia, BROOKS, 149; HELMUTH, 540; New Jersey, EATON, 346; STONE, 1313; New York, CARTER, 190; VOGT, 1440; Connecticut, JONES, 629; KUEZZI, 694; Rhode I., NICHOLS, 975; Massachusetts, BAGG, 34; ELIOT, 355; EMILIO, 359; GRISCOM, 469; TOWNSEND, 1398, 1399.

Canada.—ANON., 19; LEWIS, 738; TAVERNER, 1356; Nova Scotia, JOHN-SON, 628; Quebec, MAYAUD, 857; Labrador, LEWIS, 740; Ontario, BLACK, 103; DALE, 268; HARKNESS, 507; TAVERNER, 1358; Manitoba, TAVERNER & SUTTON, 1360; Saskatchewan, BRADSHAW, 132; Athabasca, MEISE, 879; British Columbia, BROOKS, 147; LAING, 714; MUNRO & CLEMENS, 946; SWARTH, 1341; Mackenzie, HORNBY, 584; Canadian Arctic, TAVERNER, 1357; Baffin I., SOPER, 1262.

Alaska.—ANTHONY, 27; FRIEDMANN, 395, 396; SWARTH, 1342.

Greenland.—BERTRAM & others, 92; CHAPMAN, 207; HELMS, 538; PEDERSEN, 1019; PETERS, 1032.

THE OCEANS.

Atlantic.—North Atlantic, CAIRNIE, 180; South Atlantic, MATHEWS, 839; Atlantic and Indian Oceans, MOREAU, 930.

Antarctic Seas.—HAMILTON, 501.

Arctic Seas.—BELOPOLSKIJ, 71.

FOSSIL BIRDS.

Eocene.—Mongolia, WETMORE, 1469.

Oligocene.—S. Dakota, WETMORE & CASE, 1472.

Pliocene.—Texas, COMPTON, 236.

Pleistocene and Post-Tertiary.—Essex, BATE, 56; Borodino Is., YABE & SUGIYAMA, 1527; Szechwan, WETMORE, 1469; California, COMPTON, 237, 238; Texas, COMPTON, 236; Lawrence I., Bering sea, FRIEDMANN, 398; Alaska, FRIEDMANN, 399.

Tertiary of Uncertain Age.—Nebraska, COOK, 243; WETMORE, 1470.

Other Works on Fossil Birds.—LADD, 713; SWINTON, 1344; YABE & SUGIYAMA, 1527.

III.—SYSTEMATIC.

The classification of Sharpe's "Hand-list" is here followed as regards orders and families. The genera are arranged alphabetically in the families. This method is a change from the old system, as so many alterations in nomenclature and generic status have been introduced since the publication of the "Hand-list."

Full references are given only in the case of new genera and species. In other cases the numeral in heavy Clarendon refers to the List of Titles, where the full reference will be found. The figures in smaller Clarendon refer to the volume number of the full reference.

Check list of the Birds of the World vol. 2, PETERS 1033.

ORDER RHEIFORMES.

Rhea americana albens in Matto Grosso notes p. 364, STONE & ROBERTS 1314.

ORDER STRUTHIONIFORMES.

Anatomy of the pelvic region and hind limb of the Ratitae, SUDILOVSKAYA 1330.

Struthio camelus and other Ratites structure of tongue fig., FARAGGIANA 372.

ORDER DINORNITHIFORMES.

†*Emeus huttoni* descr. skeleton and other notes figs., BENHAM 74.

ORDER AEPYORNITHIFORMES.

†*Mullerornis agilis* descr. of skeleton and discussion of age and relationships figs., LAMBERTON 715.

ORDER APTERYGIFORMES.

Apteryx mantelli field and other notes p. 130, PORTER 1071.

ORDER TINAMIFORMES.

A revision and classification of the Tinami based on phylogeny, v. BOETTCHER 108.

Nothura maculosa races discussed and listed p. 279, LAUBMANN 729.

ORDER GALLIFORMES.

Game birds of Japan, TAKA-TSUKASA 1351.

Field notes and life history of the Pheasants of the Tibetan-Chinese borderlands, SCHÄFER 1183.

Periodic population fluctuations in Partridges and Grouse, MIDDLETON 893.

FAM. MEGAPODIIDAE.

Catheturus lathamii nesting habits at Whipsnade photos, SETH-SMITH 1222.

Leipoa ocellata nesting and other habits and range, CHANDLER & others, 201; Note on incubation of eggs, MATTINGLEY 851.

FAM. CRACIDAE.

Ortalis wagleri griseiceps subsp. n. Sonora Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 431.

Penelope inexpectata sp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 317.—*P. vetula* note on type, probably an artifact p. 249, v. ROSSEM 1144.

Penelopina nigra diceyi Salvador p. 364, *P. n. rufescens* Nicaragua p. 365 subsp. n., v. ROSSEM Trans. S. Diego Soc. N.H. 7.

FAM. TETRAONIDAE.

Bonasa umbellus sexual display and mating habits, ALLEN 13; Feather structure and "drumming," TOWERS 1397.—*B. umbellus togata* mortality from Leukocytozoon infestation, CLARKE 227.

Centrocercus urophasianus courting performance, HORSFALL 589.

Falcipennis falcipennis photos of display and nesting, YAMASHINA & YAMADA 1532.

Lagopus lagopus on the Siberian races, *L. l. dybowskii* subsp. n. Stanovoi Mts. E. Siberia, STEGMANN Orn. Monatsb. 42 p. 150.—*L. l. sserelrowsky* subsp. n. Transbaikalia, DOMANIEWSKI Acta Orn. Mus. Polon. 1 p. 156.—*L. albus* field observations, food, migration, nesting, in E. Siberia, ROMANOV 1141.—*L. mutus captus* nom. n. pro *L. m. groenlandicus* Schiøler nec Brehm, PETERS Check-list 2 p. 35.

Lyrurus × *Phasianus* on a hybrid, LOWE 780.—*L. tetrix* in Holland photos of display, RUTTEN 1160; Race in Manchuria p. 42, SEYS & LICENT 1227; Food habits in Transbaikalia, FETISOFF 377.

Pedioecetes phasianellus campestris historical field notes in Minnesota, C. E. JOHNSON 627.

Tympanuchus cupido americanus past field notes in Minnesota, C. E. JOHNSON 627.

Tetrao u. urogallus, *Lyrurus t. tetrix*, *Tetrastes b. rupestris* present and past status in W. Prussia, DOBBRICK 318.—*T. urogallus* nesting in the Italian Alps, GIACOMETTI 428.—*T. urogalloides turensis* subsp. n. Lower Tunguska, Siberia, BUTURLIN A key to determine the birds 1933 p. 28.

Tetrastes bonasia volgensis food habits, distr., local migration in C. Russia, FORMOSOV 388.

FAM. PHASIANIDAE.

Alectoris graeca whitakeri subsp. n. Sicily, SCHIEBEL Falco 1934 p. 2.—*A. barbara spatzi* nr. Tripoli note figs. p. 13, MOLTONI 908.—*A. barbara duprezi* subsp. n. C. Sahara, LAVAUDEN Alauda 2 1930 p. 243*.—*A. kakelik armenica* subsp. n. Armenia p. 35, Buturlin [see Alauda 1934 p. 130].

Chalcocomus gen. n. for type *Acomus inornatus* Salvad., RILEY Proc. Biol. Soc. 47 p. 115.

Coturnix c. coturnix status and migrations in Germany, SCHÜZ 1210.—*C. c. japonica* pigment development in the juvenile plumage, KAWAMURA 651.—*C. coromandelica* general notes, INGLIS 604.

Crossoptilon experiments in cross breeding the various spp., GHIGI 427.

* Accidentally omitted from previous records.

Cryptoplectron manipurensis inglisii descr. and habits p. 92, INGLIS 604.

Fringilla p. pintadeanus general account, plumage development and habits of young, PEREIRA 1023, 1024.—*F. shelleyi* note on races p. 334, VINCENT 1437.—*F. leucillanti mulemae* note p. 46, LYNES 793.—*F. sephaena* revision and discussion of races p. 170, *F. s. somaliensis* Brit. Somaliland p. 172, *F. coqui thikae* Kenya Colony p. 173, *F. castaneicollis kaffanus* S.W. Abyssinia p. 173 subsp. n., GRANT & M.-PRAED Bull. B.O.C. 54.—*F. albogularis gambagae* field notes in Nigeria, "CHARADRIUS" 208.

Gallus evolution and phylogeny of the species and races, HERTWIG 553.—*G. dom.* case of two pairs of testes, HARNLEY 508; Size and weight of Chinese breeds and their eggs, ROBERTS & HUNTER 1123; Date when first domesticated in Egypt, LOWE 781; in pre-Roman Britain, BATE 56.—*G. gallus robinsoni* note on "soft parts" p. 273, DE SCHAUENSEE 1190.

Gennaeus nycthemurus ripponi descr. plumage very constant p. 274, DE SCHAUENSEE 1190.

Ithaginis cruentus kuseri note in N.E. Burma p. 367, KINNEAR 662.

Lophophorus sclateri range in N.E. Burma etc. p. 366, KINNEAR 662.

Pavo general account with many photos in New York Zoo, CRANDALL 258.—*Pavo* × *Gallus* hybrid and its chromosomes, TINIakov 1387.

Perdix perdix general work on rearing, sport, importation, etc., SPRAKE 1272; Migrations and wanderings in E. Europe, GROTE 484; Distr. and status in Finland, NORDBERG 982; On supposed distinct races in France and migrations in Russia, DEMENTIEFF & others 305; In U.S.A., importations, distr., habits, economics and population fluctuations, YEATTER 1535.—*P. barbata suschkini* note p. 83, MEISE 872.—*P. "damascena"* history and discussion, LAUDAUDEN 730.

Phasianus management and conservation in Michigan U.S.A., WIGHT 1482.—*P. colchicus shawii*, *P. c. mongolicus* status, habits, variation, nesting etc. in Sinkiang p. 99, LUDLOW & KINNEAR 786.

Pternistis afer bohmi note on races p. 47, LYNES 793.

Ptilopachus petrosus range and habits p. 68, BATES 57.

Tetraogallus h. himalayensis status, juvenile plumage in Chinese Turkestan p. 106, LUDLOW & KINNEAR 786.—*T. caspius tauricus* subsp. n. Caucasus p. 29, BUTURLIN [see *Alauda* 1934 p. 130].

FAM. NUMIDIDAE.

Guttera a revision of spp. and races with fresh distinctive characters and ranges p. 495, VINCENT 1437.

Numida structure of bony crest, KŘÍŽENECKÝ 691.—*N. meleagris uhenensis* in Port. E. Afr. a good race p. 339, VINCENT 1437.—*N. meleagris bodalyae* subsp. n. Angola, BOULTON Proc. Biol. Soc. 47 p. 45 fig.

FAM. MELEAGRIDAE.

Agriocharis ocellata capture, habits, distr. etc. in Guatemala, TAIBEL 1348, 1349.

Meleagris chromosomes studies, SOKOLOV & others 1255.—*M. gallopavo* secondary sexual characters and gonadectomy, SCOTT & PAYNE 1219.

FAM. ODONTOPHORIDAE.

Colinus v. virginianus diet and extent of parasitism, NAGEL 956.

†*Cyrtonyx cooki* sp. n. late Tertiary Nebraska, WETMORE Condor 36 p. 30 figs.

Eupsichortyx sclateri type examd. = *Colinus leucopogon sclateri* (Bp.) p. 406, v. ROSSEM 1142.

Lophortyx douglasii note on races p. 432, v. ROSSEM 1142.—*L. californica orecta* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 2.

ORDER PTEROCLIDIFORMES.

Pterocles coronatus vastitas in Ahaggar Mts. p. 564, MEINERTZHAGEN 869; Again in Sinai, STRESEMANN 1319.—*P. e. exustus* habits in Sahara p. 215, BATES 57.—*P. senegallus remotus* subsp. n. Kutch, India, NEUMANN Verh. orn. Ges. Bay. 20 p. 471.—*P. orientalis* structure of crop and relationship to the Pigeons, NIETHAMMER 976.

Syrhaptes paradoxus on a chick bred in the British Is. in 1889, LOWE 779.

ORDER COLUMBIFORMES.

The classification of N. American Pigeons, PETERS 1037.

Hybridization among the Columbidae and its results on classification, TAIBEL 1347.

FAM. TRERONIDAE.

Ducula rosacea whartoni Christmas I. notes and affinities p. 58, CHASEN 212.—*D. concinna aru* subsp. n. Aru Is., SALOMONSEN Bull. Bt. Orn. Cl. 54 p. 87.

Globicera oceanica ratakensis subsp. n. Marshall Is., TAKA-SUKASA & YAMASHINA 1352.

Philinopus melanocephalus banqueyensis note p. 166, CHASEN & KLOSS 215.

Sphenocercus s. seimundi in the Dindings Malay Pen., CHASEN 213.

Treron curvirostra a race, probably *T. c. smiera* Oberh., on Klapper Island W. of Java, STRESEMANN 1322.—*T. fulvicollis oberholseri* subsp. n. Natuna Is., CHASEN Bull. Raffles Mus. 9 p. 92.—*T. australis xenia* subsp. n. W. Madagascar, SALOMONSEN Ibis 1934 p. 386.

FAM. COLUMBIDAE.

Alsocomus puniceus in Singhhum, Bengal, MOONEY 919.

Chalcophaps indica natalis characters and other notes p. 61, CHASEN 212.

Claravis mondetoura inca Peru p. 6, *C. m. ochoterena* Vera Cruz, Mexico p. 7 subsp. n., v. ROSSEM Trans. S. Diego Soc. N.H. 8.

Columba livia lividior addt. notes p. 216, BATES 57.—*C. l. korejewi* not separable from *C. l. neglecta* Hume p. 95, LUDLOW & KINNEAR 786.—*C. oenas* habits in Switzerland col. pl., HALLER 497.—*C. thomensis* present status in S. Thomé, STRESEMANN 1323.—*C. leuconota gradaria* recorded in N.E. Burma p. 366, KINNEAR 662.—*C. pallidiceps*, *Janthenas philippinae* is a synonym p. 4, MAYR 864.

Columbigallina passerina revision of Antillean races, PETERS 1034.

Ectopistes migratorius personal recollections in Michigan, WILSON 1487.

Geopelia striata food and feeding habits in Philippine Is., MANUEL 827.

Gymnophaps a. albertisii range and other notes p. 5, MAYR 864.

Enopopelia tranquebarica humilis in Perak, CHASEN 213.

Scardafella i. inca breeding and other habits, moult etc. in Mexico City, HEILFURTH 534.

Stigmatopelia senegalensis phenicophila nr. Tripoli, note fig. p. 19, MOLTONI 908.

Streptopelia risoria sex-linked inheritance of plumage colour, TANGE 1353.—*S. orientalis meena* nomenclature and history of type p. 97, LUDLOW & KINNEAR 786.—*S. o. baicalensis* nom. emend. pro *S. o. rupicola* (Pall.), BUTURLIN Polnyi opredelitel' ptits S.S.S.R. 1 1934 p. 224.—*S. t. turtur* in S. Sahara p. 217, BATES 57.—*S. decaocto koreensis* nom. emend. pro *S. d. torquata* Bogd. part., BUTURLIN Polnyi opredelitel' ptits S.S.S.R. 1 1934 p. 226.—*S. chinensis tigrina* in New Britain introduced p. 5, MAYR 864.—*S. roseigrisea bornuensis* addt. notes p. 219, BATES 57.

Zenaida auriculata races discussed p. 282, LAUBMANN 729.

ORDER RALLIFORMES.

FAM. RALLIDAE.

†*Apterornis solitarius* of Réunion general account, RENSCHAW 1106.

Fulica atra curious behaviour at the nest, RUTHKE 1158.—*F. leucoptera* descr. nestling p. 274, LAUBMANN 729.

Gallinula chloropus length of a dive, L. SMITH 1247.

Gallirallus australis present status and general notes p. 228, PORTER 1071.

Laterallus xenopterus sp. n. Paraguay, CONOVER Auk 1934 p. 365.—*L. leucopyrrhus* breeding habits in captivity, MEISE 873.

†*Leguatia gigantea* discussion of identification, probably a Flamingo, MORTENSEN 935.

Lemurolimnas gen. n. for type *Zapornia watersi* Bartlett, SALOMONSEN Ibis 1934 p. 388.

Mentocrex kioloides berliozi subsp. n. N. Madagascar, SALOMONSEN Ibis 1934 p. 386.

Porphyrio a discussion of the Australis spp. and their taxonomy, WHITTELL 1479.

Porzana parva breeding and other habits, RUTHKE 1157.—*P. nigra* in the Marquesas Islands note on distr., BERLIOZ 82.—*P. flaviventer woodi* subsp. n. El Salvador, VAN ROSSEM Condor 36 p. 243.

Rallacula leucospila steini subsp. n. Dutch New Guinea, ROTHSCCHILD Orn. Monatsb. 1934 p. 46.

Rallina fasciata recorded for Cochinchina, DAVID-BEAULIEU 283.

Rallus aquaticus voice, DATHE 280.—*R. circoleps* Lesson type found to be identical with *Coturnicops exquisita* (Swinhoe), BERLIOZ 82.—*R. longirostris manglecola* subsp. n. Antigua W.I., DANFORTH Proc. Biol. Soc. 47 p. 19.—*R. limicola zetarius* nom. n. pro *R. v. pacificus* Dickey nec Gmel. p. 160, *R. torquatus limarius* nom. n. pro *Hypotaenidia saturata* Selater nec Ridgway p. 166, PETERS Checklist 2.

Sarothura rufa subsp. ? female from Bangweolo descr. p. 37, LYNES & SCLATER 794.

†*Telecrex grangeri* gen. et sp. nov. U. Eocene Mongolia, WETMORE Amer. Mus. Nov. 711 p. 13 figs.

FAM. HELIORNITHIDAE.

Heliopais personata records in Siam, VIJAKICH 1431.

ORDER PODICIPEDIFORMES.

Podiceps c. cristatus territorial behaviour, VENABLES & LACK 1427; Digestion of feathers in stomach, JIRSIK 623.—*P. r. ruficollis* nesting and other habits, MOUNTFORT 938; Nesting in an Amsterdam park, STEENHUIZEN 1280.—*P. ruficollis poggei* new for Manchuria p. 69, MEISE 872.—*P. n. nigricollis* nesting and other habits in Bavaria, WÜST 1520.

ORDER SPHENISCIFORMES.

Some account of the embryos of *Aptenodytes* and *Pygoscelis*, PARSONS 1011.

Aspergillosis in Penguins, HOLZ 578.

Aptenodytes forsteri evidence of migrations from examination of stomach pebbles, STEWART 1306.

Megadyptes antipodes notes in New Zealand p. 227, PORTER 1071.

ORDER PROCELLARIIFORMES.

A systematic list of the Order with synonymy, breeding and other ranges and keys, MATHEWS 848.

Synonymy of the Tubinares various notes, MATHEWS 843.

Distribution, breeding and other habits of New Zealand Petrels, FALLA 371.

FAM. HYLOBATIDAE (olim PROCELLARIIDAE).

Loomelania gen. n. for *Procellaria melania* Bp., MATHEWS Bull. B.O.C. 54 p. 119.

Oceanodroma l. leucorrhoa recorded nesting in Orkney, ROBINSON 1129; Taken in Sardinia, MOLTONI 912; Influx on Atlantic seaboard U.S.A., RODGERS & others 1133.—*O. socorroensis* ranges south to coast Guatemala p. 387, v. ROSSEM 1142.—*O. castro* recorded for Canada, TAVERNER 1358.

Fulmarus glacialis historical synonymy p. 173, MATHEWS 843; Colour phases p. 820, BERTRAM & others 92; Dark and light forms and their distr. p. 258, ROBERTS 1122; Status in Flannan and other remote islands, STEWART 1307; Status in Barents Sea, BELOPOLSKIJ 71.

Procellaria curilica Pallas, note on identification p. 175, MATHEWS 843.

Pterodroma mollis review of the races, MATHEWS 842; *P. m. madeira* subsp. n. Madeira, MATHEWS Bull. B.O.C. 54 p. 161.—*P. arminjoniana* recorded in North America, ALLEN 14.—*P. cookii orientalis* off Alak I., Alaska new to N. America, ANTHONY 27.

†*Pterodroma melanopus* history of extermination on Norfolk Island with plate, WHITLEY 1477.

Puffinus osteological distinctions of some of the spp., MAYAUD 852.—*P. p. mauritanicus* first desc. of egg from Conejera I., Balearics, JOURDAIN 635.—*P. kuhli borealis* ranges to New Zealand waters, OLIVER 986.—*P. tenuirostris* migrations and other habits S. Australia coast, SUTTON 1335.

FAM. DIOMEDEIDAE.

Review of the genera and species, MATHEWS 846.

Diomedea chrysostoma occurrence in Australian seas and critical notes on taxonomy, WHITTILL 1480.—*D. fusca* further note on Townsend's discovery, BURNS & STONE 168.—*D. epomophora longirostris* subsp. n. east coast of South America, MATHEWS Bull. Bt. Orn. Cl. 54 p. 112.—*D. immutabilis* field observations and photos on Laysan I., Pacific, BAILEY 36.

ORDER ALCIFORMES.

Aethia cristatella and *Phaleris psittacula* nesting notes Anadyr N.E. Siberia and descr. of pharynx and trachea, PORTENKO 1069.

Alca torda a small flock infested with flukeworms (*Cotylurus*), LOWE 778.

Alle alle in Cuba, BRUNER 159.

Fratercula arctica grabae breeding habits in Pembrokeshire, LOCKLEY 756.

Uria lomvia field notes on Novaya Zemlya, VLADIMIRSKAYA 1439; Banding in Novaya Zemlya, ESPOV 365.

ORDER LARIFORMES.

A popular illustrated account of the British Sea Terns, MARPLES 831.

Nesting notes from Filsand I., Baltic, XAVER & ZEDTWITZ 1526.

Anous stolidus pileatus range, notes etc. p. 63, CHASEN 212.

Chlidonias n. niger census and breeding range in Holland, HAVER-SCHMIDT 524.

Gelochelidon nilotica status and movements in Holland, v. D. MEER 866a.

Larus notes on spp. in London area, ROWBERRY 1153.—*L. canus* nesting on trees in Holland, STRIJOS 1326.—*L. leucopterus* plumage sequence, TETLEY 1369.—*L. f. fuscus* migrations and movements, SCHÜZ 1215.—*L. argentatus*, *L. fuscus* distinct egg laying dates in Shetland and the systematic status of the two forms, JUNGE 646.—*L. argentatus* p. 359 and other of the larger Gulls revision and review of spp. and subsp., *L. a. ponticus* subsp. n. Black Sea p. 374, STEGMANN J. Orn. 1934 p. 340.—*L. a. argentatus* nesting inland on heaths in Finland, HYTÖNEN 602.—*L. heuglini* Bree = *L. argentatus taimyrensis* and further discussion of racial status and

nomenclature of allied forms, NEUMANN 963.—*L. taimyrensis armenicus* subsp. n. Armenian Transcaucasia, BUTURLIN Ibis 1934 p. 171.—*Larus argentatus smithsonianus* migrations in eastern North America, EATON 345.—*L. californicus* census of Gulls on islands in Gt. Salt Lake, Utah, BEHLE & WOODBURY 1515.—*L. ridibundus* crossing the Atlantic, BROUWER 154; Migrations of Lake Ladoga bred birds, DOPPELMAIR 325; Migration movements and return to summer quarters in Holstein, RESÜHR & ALBERTSEN 1107; An example breeding in partly juvenile plumage, v. OORDT 992; A new colony in Saxony with unusual nesting habits, ZIESCHANG & CREUTZ 1548; Nesting in trees in Cheshire, BOYD 129.—*L. maculipennis* a race of *L. ridibundus* p. 262, LAUBMANN 729.—*L. leucopterus* v. *L. glaucooides* discussion of correct name, MAYAUD 858.—*L. cachinans* arrival on Lake of Geneva, PONCY 1065.—*L. philadelphia* breeding habits in Alberta and Hudson Bay, TWOMEY 1414.—*L. sabini sabini* is the race visiting west coast of France, MAYAUD 860.—*L. kumlieni* nr. Churchill juv. plumage p. 53, TAVERNER & SUTTON 1360.—*L. atricilla* banded in Massachusetts recovered in Salvador, LINCOLN 742.—*L. novae-hollandiae* nesting habits Lake Corangamite, photos, BARRETT 55.

Pogophila eburnea taken on Hokkaido Japan, YAMASHINA 1530.

Rhynchops flavirostris a fish-eater p. 214, BATES 57.—*R. n. nigra* field notes in Georgia, TOMKINS 1393.

Rissa rissa status in Barents Sea, BELOPOLSKIJ 71.—*R. tridactyla* food problems in Spitsbergen, HARTLEY 522.

Sterna courtship-habits, CHRISTOLEIT 222; Present status of the colonies at Cape Cod, Mass., AUSTIN 32.—*S. hirundo*, *S. paradisea* difference in nesting and brooding habits, v. OORDT 990.—*S. hirundo longipennis* note p. 77, MEISE 872.—*S. macrura* breeding range in Holland, HAVERSCHMIDT 525.—*S. dougallii* nesting on Dyers I., Cape Province in June, VINCENT 1434.—*S. s. sandvicensis* migration investigations, TEKKE 1364.—*S. bengalensis emigrata* subsp. n. Tangier, NEUMANN Anz. orn. Ges. Bay. 2 p. 331.—*S. nereis* observation and photos nr. Melbourne, LITTLE-JOHN 749.

Xema sabini palaeartica subsp. n.
Taimyr Seas, STEGMANN Orn. Monatsb.
1934 p. 25.

FAM. STERCORARIIDAE.

Catharacta skua discussion on validity of described Antarctic races, HAMILTON 501.

Stercorarius the spp. observed in West Prussia, DOBBRICK 317.—*S. skua* economic status and protection in Shetland, BURKILL 165; In Luxembourg, FERRANT 376.—*S. longicaudus*, *S. parasiticus* osteological differentiation, WILLETT & HOWARD 1486.

ORDER CHARADRIIFORMES.

Some Waders resident on the Ayrshire coast, PATON 1014.

A key to the Spanish Charadriiformes, LLETGET 751.

The Waders of Kenya and Uganda descr. habits figs., v. SOMEREN 1259.

Indian Waders with descr. and coloured figs., BAKER 42.

West Indian records of Shore-birds, DANFORTH 272.

The Snipe of Argentina, photos of chicks, PEREYRA 1025.

A list of the Waders in his private collection, KURODA 704.

FAM. CHARADRIIDAE.

Belonopterus chilensis nest and young birds, POZZI 1076; Revision p. 2, *B. c. fretensis* subsp. n. Magellanes Chile p. 12, BRODKORB Occ. Pap. Mus. Zool. Univ. Mich. no. 293.

Calidris temminckii recorded nesting in Scotland, EDWARDS 349; Migration movements in C. Europe, TISCHLER 1389.—*C. ruficollis* races and their distr. p. 72, MEISE 872.

Capella gallinago faeroeensis recorded for Kent, HARRISON 514; In Heligoland, KELM 653.—*C. paraguaiae* note on races p. 266, LAUBMANN 729.

Charadrius hiaticula races reviewed and discussed, LOW 773, 775.—*C. h. kolymensis* subsp. n. Kolyma delta, BUTURLIN Polnyi opredelitel' ptits S.S.S.R. 1 1934 p. 52.—*C. dubius curonicus* nesting range and other notes p. 112, LUDLOW & KINNEAR 786; In N.W. Saxony, DATHE 281.—*C.*

marginatus nigirius, *C. pecuarius* habits and moult p. 72, BATES 57.—*C. m. mongolus* in Alaska, FRIEDMANN 393.—*C. semipalmatus* nesting and other habits, descr. of young chick at St. Mary's I., Quebec, SPINGARN 1271.

Crocethia alba nesting East Greenland photo p. 20, PEDERSEN 1019; On Dindings I., Malay Pen. in Dec., CHASEN 213.

Eudromias morinellus in Washington State, first record in U.S.A., BROWN 155A.

Gallinago gallinago an albino in Vendée, DURAND 340; In Java, OLIVIER 988.

Haematopus bachmani type locality located, BURNS 169.

Himantopus himantopus notes in Denmark fig., CARLSSON 186.

Hoplopterus ventralis nuptial performance, STANFORD 1278.—*H. spinosus* is the bird figured as "tnt" on a tomb at Beni-Hassan col. pl., GAILLARD 411.

Ibidorhyncha struthersii nesting notes and photo of chick p. 114, LUDLOW & KINNEAR 786.

Limosa limosa nesting in Czechoslovakia, MUSILEK 955.

Microsarcops cinereus nesting date photo nest, NIBE 968.

Numenius arquata early summer migrations, DROST & SCHÜZ 330; Nesting notes in Denmark, MEINHARDT 871; Both races in C. Provinces, India, D'ABREU 266.

Oxyechus vociferus incubation period, GARNIER 417.

Phaeopus hudsonicus col. pl. adt. and young p. 36, TAVERNER & SUTTON 1360.

Phalaropus fulicarius nesting on Baffin I. photo p. 66, SOPER 1262.—*P. f. jourdaini* systematic status discussed, JOURDAIN & PETERS 637; PETERS 1036.

Philomachus pugnax in India general account col. pl. p. 2, BAKER 42; In Quebec Prov., MAYAUD 857; On St. Lawrence Isle, Behring Sea, FRIEDMANN 395.

Pisobia ruficollis detail of nest and eggs in Alaska, FORD 386.

Rostratula australis nesting notes photo, MCGILP 799.

Scolopax rusticola an early drawing of bill, MOUSLEY 940; Spring migration in Prussia, STADIE 1275.

Squatarola squatarola critical notes on the races and their names, PETERS 1035.

Steganopus tricolor nesting in Washington State, KITCHIN 669.

Tringa totanus eurhinus C. Asian races discussed p. 115, LUDLOW & KINNEAR 786.—*T. totanus ussuriensis* subsp. n. Sakhalin, BUTURLIN Polnyi opredelitel' ptits S.S.S.R. 1 1934 p. 88.—*T. temminckii* breeding in C. Scotland, CRAPNELL 259.—*T. ochropus* in Karimoen Djawa Is., Java Sea p. 167, CHASEN & KLOSS 215.—*T. melanoleuca* in Marshall Is., KURODA 701.

Vanellus vanellus present status in Holland, SCHWEERS 1217; Early summer migration, DROST & SCHÜZ 330; Ringed birds taken in Vendée, BAUDOUIN 59.

FAM. PARRIDAE.

Hydrophasianus chirugus loss of barbs of the primary wing feathers, LA PERSONNE 721.

Irediparra gallinacea nesting and other habits, HINDWOOD 569; Nesting notes, descr. chick etc., POTTER 1074; also D'OMBRAIN 324.

FAM. CURSORIIDAE.

Cursorius cursor found in Sweden, LÖNNBERG 762.

FAM. GLAREOLIDAE.

Glareola pratincola boweni note on this and other spp. in French W. Afr. p. 77, BATES 57.

FAM. DROMADIDAE.

Dromas ardeola is the bird figured as "Ama" on the tomb of Béni-Hassan, GAILLARD 410.

FAM. CEDICNEMIDAE.

Burhinus oedicnemus a gathering place in August, DUNKELMANN 337.—*B. bistriatus vigilans* subsp. n. Costa Rica, v. ROSSEM Bull. Mus. Comp. Zool. 77 p. 388.

FAM. OTIDAE.

Eupodotis barrowii in Angola extension of range p. 37, LYNES & SOLATER 794.

Otis tarda in Italy, DINI 313.—*O. tetraz orientalis* recorded for Kent, PHILIP 1042.

ORDER GRUIFORMES.

The Cranes of N. China with keys descr. and pls., HENG & YUAN 542.

FAM. GRUIDAE.

Balearica regulorum gibbericeps ranges south to Iringa p. 49, LYNES 793.

Megalornis grus transmigration through Saxony, HEYDER 556; In Thuringia, HILDEBRANDT 566.

FAM. ARAMIDAE.

Aramus pictus habits and haunts in Florida, BAILEY 37.

FAM. PSOPHIIDAE.

Psophia viridis dextralis subsp. n. Rio Tapajos Brazil, CONOVER Proc. Biol. Soc. 47 p. 120.

FAM. EOGRUIDAE.

†Eogruidae fam. n. (Gruiformes) for *Eogrus acola* gen. et sp. n. U. Eocene Mongolia, WETMORE Amer. Mus. Nov. no. 711 p. 3 figs.

ORDER ARDEIFORMES.

A review of the Herodiones of Poland, DOMANIEWSKI 321.

FAM. PLEGADIDAE

(olim IBIDIDAE).

Comatibis eremita notes in Morocco, JOURDAIN 641.

Plegadis falcinellus breeding range and habits in Australia, BAILEY 39.

FAM. CICONIIDAE.

Ciconia ciconia, *C. nigra* breeding range and migration lines in Spain, STEINFATT 1296.—*C. ciconia* pairing and nesting habits, SCHÜZ 1207; Migration in C. Europe, SCHÜZ 1213; Census and status in Holland, 1934, HAVERSCHMIDT 527, 528; Census in Alsace, HEIM DE B. 535; Status for last 5 years in Silesia, BRINKMANN 140; Census of nests in Moravia and Silesia, PLACHETKA 1058; Increasing in East Prussia, HORNBERGER 583; Present status in Poland, SOKOLOWSKI 1256; WODZICKI

1501; Notes in Hungary, STEINFATT 1295; Does not pass over Bosphorus in migration, GEYR v. S. 426; Ringed example in Cameroon, PARDIEU & BUISSON 1008; A ringed bird taken in Uganda in February, migration note, PITMAN 1053.—*C. nigra* breeding and other habits nr. Riga, STOLL 1309.

Dissoura stormi in Perak, CHASEN 213.

Leptoptilus javanicus general note in Java, photos, TIRION 1388.

Mycteria americana in Indiana, HICKS 561.

FAM. ARDEIDAE.

Heron rookeries in Idaho, HAYWARD 529.

Ardea cinerea a French heronry near St. Omer, LABITTE 708.—*A. purpurea* status and movements in Holland, TEN KATE 648a.

Ardeola ibis seychellarum subsp. n. Seychelles, SALOMONSEN P.Z.S. 1934 p. 221.

Botaurus stellaris attitude when calling, REBOUSSIN 1097; Observations in Holland, HAVERSCHMIDT & BROUWER 526; Nesting habits in Saxony, ZIMMERMANN 1555.

Bubulcus ibis migrations and nesting in Nigeria, SAUNDERS 1180.

Butorides striatus rhizophorae subsp. n. Mayotte, Comoros and revisiion of other Lemurian races, SALOMONSEN P.Z.S. 1934 p. 219.

Casmerodius albus egretta recent increase nr. San Francisco, STONER 1315; In New Mexico, LITTLE 748; Nesting in New Jersey, STONE 1313.

Dichromassa rufescens dichromatism, BERLIOZ 80.

Egretta and *Demiegretta* dimorphism in certain African species, BERLIOZ 80.—*E. gularis*, *E. schistacea* further notes on status and distinctness from *E. garzetta* p. 73, GRANT & M.-PRAED 452.

Ixobrychus eurhythmus status as a German bird, TISCHLER 1390.

Nycticorax n. nycticorax breeding and other habits photos, STEINFATT 1294; Colour of the legs, STEINFATT 1298; THIEL 1370; Wanderings of quite young birds, SCHÜZ 1206; In Saxony,

VIETINGHOFF-RIESCH 1430.—*N. caldonicus* nesting in Java? SCHOENMAKERS 1202.

Tigrisoma lineatum marmoratum plumage stages and variations p. 367, STONE & ROBERTS 1314.

ORDER

PHENICOPTERIFORMES.

Phoenicopterus roseus in Denmark, JENSEN 617.—*P. chilensis* notes in the wild and in captivity, BLAAUW 102.

ORDER ANSERES.

Coloured plates of American Wild Fowl, BROOKS 148.

The Ducks of Mecklenburg, LÜBCKE 785.

Ducks killed at Basso Verbano, BELFANTI 70.

The Swans and Geese of Argentina, CASARES 191.

Food of Waterfowl in Washington State, U.S.A., SCHEFFER 1191.

Analysis of migrations of Swiss Ducks, CORTI 248.

Sex statistics of migrating Ducks, FRIELING 405.

Migration of Ducks in Louisiana: banding results, McILHENNY 803.

On the "downs" of Geese and Ducks, LINGS 744.

Hybrid ducks addt. records, BALL 45.

Waterfowl conservation in Canada, LEWIS 739.

Aix galericulata recorded in Manipur, GIMSON 435.

Anas development of hypophysis, FRIEDMAN 393; Development of skull, DE BEER & BARRINGTON 66; Physiology of respiration, Vos 1446.—*A. platyrhynchos* genetics of plumage pattern, JAAP 611; A case of premature autumn migration, VÄLIKANGAS 1419; Second broods of doubtful occurrence in wild state, ERRINGTON 364.—*A. rubripes* nesting nr. Churchill p. 17, TAVERNER & SUTTON 1360; Breaking ice, KENNARD 658.—*A. strepera* breeding in Württemberg, LÖHRI 758.—*A. querquedula* ranges to Nyasaland p. 124, BANNERMAN 47.—*A. punctata* in Nigeria, LOWE 779.

Anser anser nesting note photo p. 121, LUDLOW & KINNEAR 786.—*A. albifrons* discussion of races and taxonomy pl. p. 59, MEINERTZHAGEN 868.—*A. brachyrhynchus*, *A. albifrons* status in Iceland p. 249, ROBERTS 1122.—*A. brachyrhynchus* and other Geese in Iceland, BIRD 98.—*A. erythropus* status in Japan, KURODA 702.—*A. neglectus* on a Goose of this type shot in Scotland photos, BERRY 88.—*A. fabalis* longevity 23 years, BERTHET 91.—*A. carneirostris* possible occurrence in Scotland, BERRY 89.—*A. (Melanonyx) serrirostris rossicus* subsp. n. Lower Pechora, BUTURLIN A key to determine the birds 1933 p. 60.

Branta ruficollis captured in Camargue, MAYAUD 862; Recorded in Bavaria p. 330, WÜST under EICHLER 352a; In Czechoslovakia, DANIHELKA 275.—*B. leucopsis* a transmigrant in Finland, PYNNÖNEN 1088; Nesting, East Greenland photo p. 26, PEDERSEN 1019.—*B. c. canadensis* lead poisoning symptoms, HOWARD 591.

Chaulelasmus streperus and other rare Ducks in S.W. New England, ELIOT 355.

Chenalopex aegyptiaca identification with the "Smon" of the Egyptian monuments and general account, KUENTZ 693.

†*Chendytes lawi* a new find in California, MILLER 898.

Clangula hyemalis descr. distr. (once in Baluchistan), habits, col. pl., BAKER 43.

Cyanochen cyanopterus notes, KINNEAR 659.

Cygnus olor Swan-marks of the London area, N. F. TICEHURST 1381; Breeding statistics and other biological observations on the Alster Swans at Hamburg, PETERS 1038; Near Peiping, SHAW 1232.

Dendrocygna arcuata in New Britain 1st record p. 1, MAYR 864.

Mergus serrator nesting on inland lake in Schleswig-Holstein, LUNAU 791.—*M. squamatus* history, range etc., BUTURLIN 172.—*M. merganser americanus* food habits in Bt. Columbia, MUNRO & CLEMENS 946; No. of serrations on the bill, MOORE 927.

Nettion crecca recorded for S. Carolina, STONE 1312.

Nyroca ferina eggs and egg weights, WÜST 1519.—*N. f. fuligula* in Nigeria p. 123, BANNERMAN 47.

Somateria molissima status and habits in Iceland p. 251, ROBERTS 1122.

Spatula clypeata eggs and egg weights, WÜST 1519.

Tachyeres brachypterus and *T. patachonicus* discussion of specific differentiation, range, nesting and other habits, anatomical and embryological evidence, LOWE 783; PERCY 1021.

Tadorna tadorna range in the Duars, Bengal, INGLIS 606.

Thalassornis leucanotus insularis breeding habits in captivity, EZRA 369.

ORDER PELECANIFORMES.

FAM. PHALACROCORACIDAE.

Phalacrocorax carbo injurious to fisheries nr. Rügen, MEYER 889.—*P. pygmaeus* migrations in S.E. Europe, v. SPIESS 1270.

FAM. SULIDAE.

Sula sula rubripes and other Christmas I. spp. range, habits and plumage development, photo p. 64, CHASEN 212.—*S. bassana* visit to nesting islands off Iceland p. 245, ROBERTS 1121, 1122; Occurrences in Italy and C. Mediterranean, MOLTONI 907.

FAM. FREGATIDAE.

Fregata m. minor notes, Christmas I. p. 72, CHASEN 212.

FAM. PHAETHONTIDAE.

Phaethon aethereus second record in Arizona, VORHIES 1442.—*P. lepturus fulvus* and other spp. in Malaysian waters, range, variation and tail moult p. 75, CHASEN 212.

FAM. PELECANIDAE.

Pelecanus crispus distr. and habits in Turkestan, SPANGENBERG & FEIGIN 1264.

†*Pelecanus erythrorhynchos* in Pleistocene California, COMPTON 237.

ORDER CATHARTIDIFORMES.

Cathartes a. septentrionalis voice, ALLARD 11.

ORDER ACCIPITRIFORMES.

Growth and plumage development of Raptorial Birds, SUMNER 1332.

Field-marks for identification of Dutch Birds-of-Prey, ELJKMAN 354.

The Birds-of-Prey of Germany, KLEINSCHMIDT 671.

Status and census of Birds-of-Prey in northern Germany, WENDLAND 1467.

List of Hokkaido Accipitres in Sapporo Museum, YAMASHINA & MUKANA 1531.

The Accipitrine Birds of South Australia, general account, MCGILP 801.

Michigan Hawks, WARD 1456.

Migration of Accipitrines in Pennsylvania, POOLE 1067.

A Hawk census from Arizona to Massachusetts, NICE 973.

Food of German Birds-of-Prey, UTTENDORFER 1417.

Bilateral ovaries in Raptorial Birds, FITZPATRICK 380.

Economics and conservation of Birds-of-Prey, ROCHON-DUVIGNEAUD 1132.

Birds-of-Prey in the Vienna Zool. Gardens, photos, ANTONIUS 28.

Falconry and hawking, FLEMING 382.

FAM. SERPENTARIIDAE.

Sagittarius serpentarius no races recognizable p. 641, M.-PRAED & GRANT 808.

FAM. ÆGYPHIDAE
(olim VULTURIDAE).

Ægyptus monachus type locality is Arabia p. 347, M.-PRAED & GRANT 808.

Gyps f. fulvus on the juvenile plumage p. 348, M.-PRAED & GRANT 808.

Necrosyrtes monachus not *Pseudogyps africanus* as stated, is figured in Fuertes' "Abyssinian Birds" pl. iv, BOULTON 121.

Vultur monachus and other spp. structure of tongue p. 319, FARAGGIANA 372.

FAM. FALCONIDAE.

Accipiter nisus nesting behaviour in Tyrol, SCHAEFER 1182; Breeding and

other habits in Poland photos, SOKOLOVSKI 1257.—*A. gentilis* nesting and ecological studies near Berlin, SCHNURRE 1201.—*A. (gentilis) meyerianus* a melanistic ex. from New Britain p. 1, *A. princeps* sp. n. New Britain p. 3, MAYR Amer. Mus. Nov. 709.—*A. r. rufiventris* type loc. Southeast coast, Cape Prov. p. 111, GRANT & M.-PRAED 453.—*A. fasciatus natalis* affinities and taxonomy p. 79, CHASEN 212.

Aquila general account, KLEINSCHMIDT 672.—*A. chrysaetus* breeding and other habits in Scotland photos, GILBERT 431; Present status and habits in Switzerland, STAMMLER 1277; An eyrie in Tyrol, SCHUHMACHER, 1205; Speed of flight, DARLING 277.—*A. pomarina* nesting notes, PRESCHER 1079.—*A. verreauxi* in S. Tanganyika Terr., *A. pomarina* at Iringa in T.T. p. 43, LYNES 793.

Astur tuchiro note on the races p. 131, GRANT & M.-PRAED 454.

Baza subcristata nesting range and habits, LORD 770.

Buteo b. buteo nesting notes in the Vosges, France, CLAUDON 229.—*B. ferox* in Czechoslovakia, HOŘICE 581.—*B. b. borealis* notes in Michigan, ENGLISH 362.—*B. swainsoni* nesting and other habits in Washington State, BOWLES & DECKER 126.—*B. lagopus pallidus* status in Alaska, FRIEDMANN 396.—*B. plagiatus maximus* note p. 429, v. ROSSEM 1142.

†*Buteo grangeri* sp. n. Oligocene S. Dakota, WETMORE & CASE Contr. Mus. Paleont. Univ. Mich. 4 p. 129 figs.

Cerchneis sparveria cinnamomina Argentine races discussed p. 286, LAUBMANN 729.

Chelictinia riocourii range, nesting notes p. 64, BATES 57.

Chondrohierax discussion of races and plumages with key p. 310, *C. uncinatus mirus* Grenada W.I. p. 313, *C. u. aquilonis* Tamaulipas Mex. p. 314, *C. u. immanis* E. Ecuador p. 315 subsp. n., FRIEDMANN J. Wash. Acad. Sci. 24.

Circus gallicus status in French W. Afr. p. 65, BATES 57; Must bear the older name *C. ferox* (S. G. Gmelin) 1771 p. 643, M.-PRAED & GRANT 808.—*C. pectoralis* type loc. Cape Province p. 110, GRANT & M.-PRAED 453.

Circus cyaneus nesting in Cumberland, GRAHAM 451.—*C. cyaneus*, *C. pygargus*, *C. aeruginosus* field observations and nesting habits in Norfolk, BUXTON 176.—*C. ae. aeruginosus* ranges south to the Transvaal p. 112, GRANT & M.-PRAED 453.—*C. ae. ranivorus* only the one African race recognizable p. 132, GRANT & M.-PRAED 454.—*C. ae. spilonotus* note p. 60, MEISE 872.

Cuncuma vocifer clamans subspecific status and type locality p. 832, M.-PRAED & GRANT 808.

Elanus coeruleus hypoleucus nesting and other notes, SPENNEMANN 1269.—*E. scriptus* field notes in N.S. Wales, IRBY 609.

Erythrotriorchis radiatus nesting and other habits, BARNARD 52.

†Falconiform (gen. et sp. ined.) Eocene Mongolia note fig. p. 2, WETMORE 1469.

Falco peregrinus occasionally nesting with other bird colonies, GROTE 481; Preying on *F. tinnunculus*, BOHMAN 109; *F. peregrinus* discussion of races p. 476, *F. p. kleinschmidti* subsp. n. Yakoutz E. Siberia, DEMENTIEV Oiseau 1934 p. 480.—*F. peregrinus* revision and discussion of E. Palearctic races p. 225, *F. p. caeruleiceps* N.E. Europe and W. Siberia p. 227, *F. p. gobicus* E. Turkistan and Mongolia p. 235 subsp. n., STEGMANN J. Orn. 1934.—*F. p. calidus* does not migrate to Africa and is doubtfully distinct from *F. p. peregrinus*; *F. p. babylonicus* doubtfully recorded from Africa, *F. p. arabicus* = *F. p. peregrinoides*; *F. b. biarmicus* type locality is Peddie distr. Cape Prov. p. 349, M.-PRAED & GRANT 808.—*F. p. anatum* status in Tennessee etc., GARNIER 415; Nesting notes in Ontario, LINDSAY 743.—*F. cherrug hendersoni* recorded in Manchuria descr. p. 278, KURODA 703.—*F. concolor* recorded from Ukerewe I. Victoria Nyanza, STRESEMANN 1323.—*F. cuvieri* in Nyasaland p. 320, VINCENT 1437.—*F. l. longipennis* in New Britain, STRESEMANN 1323.—*F. c. columbarius* in S. Uist a dark var. or American wanderer? p. 58, MEINERTZHAGEN 868.—*F. c. bendirei* in Cozumel I. and Kansas, LONG 761.—*F. tinnunculus* an albino photo, KLEINSTÄUBER 674; Revision of African races, eight recognized p. 75,

GRANT & M.-PRAED 452.—*F. t. rhodesi* a good race field notes etc. p. 322, VINCENT 1437.—*F. sparverius* food in Washington State, ALCORN 4.

Gypaëtus barbatus in Tunisia p. 214, GUIRTCHITCH 488; Haunts in Tibet, DUNCAN 335.—*G. b. altaicus*? taken in Chahar, Mongolia, SHAW 1233.—*G. b. meridionalis* type loc. Sunday River Cape Prov. p. 111, GRANT & M.-PRAED 453.

Gypohierax angolensis in Port. E. Afr. food habits p. 328, VINCENT 1437.

Haliaetus albicilla ringed and recovered, SCHÜZ 1209.

Heterospizias meridionalis australis status and distribution p. 291, LAUBMANN 729.

Hieraaëtus pennatus type loc. Hungary p. 109, GRANT & MACKWORTH-PRAED 453.

Kaupifalco monogrammicus no subspecies recognizable p. 130, GRANT & M.-PRAED 454.

Lophoictinia isura nesting and other habits, BARNARD 52.

Melierax gabar type-loc. Zwart river Graaf Reinet div., Cape Prov. p. 111, GRANT & M.-PRAED 453.—*M. m. metabates* nest and eggs photo p. 12, GRANYIK 456.

Milvus m. milvus notes in the Vosges, France, CLAUDON 230.—*M. m. milvus*, *M. m. migrans* range in France, OLIVIER 987.—*M. migrans* revision of African races p. 83, GRANT & M.-PRAED 452.—*M. m. parasitus* type loc. Peddie, Cape Prov. p. 109, GRANT & M.-PRAED 453.

Pernis apivorus nesting notes, SCHMAUS 1197; Again nesting in Holland, o. d. COUL 252a; In Nyasaland p. 323, VINCENT 1437.

Pithecophaga jefferyi list of known examples in Museums, DAVIDSON 284.

Polihierax semitorquatus only two recognizable races p. 129, GRANT & M.-PRAED 454.

Spilornis cheela natunensis subsp. n. Natuna Is., CHASEN Bull. Raffles Mus. 9 p. 93.

Tinnunculus cenchris in the I. of Wight, MOREY 933.

ORDER STRIGIFORMES.

Growth and plumage development of Owls, SUMNER 1332.

The Owls of Germany, KLEINSCHMIDT 671.

Food of Owls in Germany, UTTEN-DÖRFFER 1417.

Ohio Owls, EARL 344.

The structure of the syrinx in N. American Owls, MILLER 896.

FAM. STRIGIDAE
(olim BUBONIDAE).

Aegolius funereus review of the subspecies (in Russian), DEMENTJEV 304.

Asio o. otus ecological and population relations to its chief prey *Microtus*, TINBERGEN 1384; Food studies in Saxony, GERBER 422.—*A. flammeus* nesting notes in Denmark, FRÖLICH 407.—*A. stygius robustus* subsp. n. Vera Cruz, Mexico, KELSO Auk 1934 p. 522.

Athene noctua structure of eye, ROCHON-DUVIGNEAUD 1131.—*A. n. visalli* food of the young birds, TINBERGEN & BROCKHUYSEN 1385.

Bubo bubo colour variation in C. Asiatic races, DÉMENTIEFF 300; Nesting and other habits in Thuringia, GUAG 487.—*B. b. inexpectatus* note p. 55, MEISE 872.—*B. b. ascalaphus* rejecting pellets twice daily, CARPENTIER 187.—*B. capensis mackinderi* ranges south to Iringa p. 60, LYNES 793.—*B. virginianus leucomelas* of Bt. Columbia, critical notes, SWARTH 1341.

Glaucidium t. tephronotum a second example obtained in Ashanti, BANNERMAN 47.—*G. t. elgonense* addt. descr. notes p. 41, GRANVIK 456.—*G. p. orientale* habits in Saghalien, KISHIDA 666.—*G. gnomi penicola* in Athabasca, MEISE 879.

Mimizuku gen. n. for genotype *Pseudopteryx gurneyi* Tweeddale, HACHISUKA Bds. Philippines Pt. 3 p. 50.

Ninox forbesi natalis affinities p. 81, CHASEN 212.

Otus brucei colour variation in C. Asia DÉMENTIEFF 300.—*O. rufescens burbridgei* Sulu p. 51, *O. r. malayensis* Malay Peninsula p. 52 subsp. n., HACHISUKA Bds. Philippines Pt. 3.—*O. senegalensis* distr. habits col. pl. Nigeria, ANON 24.

Speotyto cunicularia bred in captivity, PETERS 1031.

Pulsatrix key of species and races, KELSO 654.—*P. p. boliviana* subsp. n., S. Bolivia, KELSO Biol. Leaf. no. 2 1933.

Strix aluco infra red waves, effects on vision, VANDERPLANK 1422; Food habits around Berlin, SCHNURRE 1200; *S. a. sylvatica* attacks on man, CADMAN 179.

FAM. TYTONIDAE
(olim STRIGIDAE).

Tyto sororcula rediscovered in Tenimber taxonomic note p. 17, STRESEMANN 1324.

ORDER PSITTACIFORMES.

On the structure of the stomach of the flower-visiting Parrots, STEINBACHER 1289.

FAM. NESTORIDAE.

Nestor notabilis general account and question of damage to sheep discussed, col. pl. p. 65, PORTER 1071.

FAM. LORIIDAE.

Chalcopsittacus duivenbodei intermedius subsp. n. Augusta river, New Guinea, AUBER Anz. Orn. Ges. Bay. 2 no. 8 p. 315.

Geoffroyus geoffroyi stresemanni subsp. n. Buru I., East Indies, SALOMONSEN Bull. Bt. Orn. Cl. 54 p. 87.

FAM. CACATUIDAE.

Review of the Plectolophinae, STIGAND 1308.

Probosciger aterrimus note fig., STIGAND 1308.

FAM. PSITTACIDAE.

Agapornis review of spp. and races with avicultural and other notes, HAMPE 502.

Amazona diademata, *A. saltrini* concealed and exposed nostrils differentiate the two spp., SETH-SMITH 1224.

Ara guadeloupensis an early 16th cent. reference, CLARK 225.—*A. chloroptera* breeding in the open at Lilford, England, MOODY 917.

Cynorhamphus cooki col. pl. and notes on this and other spp. of genus and their chances of survival, PORTER 1072.

Loriculus tener in New Britain p. 6, MAYR 864.

Melopsittacus undulatus in the bush and in captivity, aviculture breeding and variation, CAYLEY 197; Origin, propagation and genetics of various variations, STEINER 1291; Psittacosis, MAYER & EDDIE 885.

Myiopsitta m. monarcha racial characters p. 295, LAUBMANN 729.

Platycercus eximius, *P. elegans* feeding habits and food, BRIDGEWATER 136.

Poicephalus crassus range in French W. Afr. p. 229, BELIOZ 81.—*P. senegalus versteri* historical note, SNOUCKAERT V. S. 1252.

Pristorhamphus versteri historical note and races, SNOUCKAERT V. S. 1252.

Psephotellus dissimilis nesting in captivity, TAVISTOCK 1361.

Psittacula eupatria race in N. Siam p. 259, DE SCHAUENSEE 1190.—*P. nipalensis* a blue variation bred in captivity with a lutino hen, EZRA 368.—*P. alexandri dammerani* note p. 168, CHASEN & KLOSS 215.—*P. longicauda defontainei* subsp. n. Natuna Is., CHASEN Bull. Raffles Mus. 9 p. 93.

Psittacus e. erithacus on a mounted example dating from 1702 in Westminster Abbey, KINNEAR 659.

Psittrichus (Dasyptilus) pesqueti habits in captivity, STEINMETZ 1300.

Rhynchopsitta pachyrhyncha status in Arizona, VORHIES 1443.

FAM. STRINGOPIIDAE.

Stringops habroptilus present status and chance of survival in New Zealand p. 205, PORTER 1071.

ORDER CORACIIFORMES.

FAM. PODARGIDAE.

Batrachostomus javensis nesting notes in Java figs., COOMANS DE R. 246.

FAM. LEPTOSOMATIDAE.

Leptosomus discolor anjuanensis subsp. n. Anjuan, Comoro Is., SALOMONSEN Ibis 1934 p. 384.

FAM. CORACIIDAE.

Eurystomus orientalis taxonomy and nomenclature of Austro-Malayan forms p. 6, MAYR 864.

FAM. ALCEDINIDAE.

A revision and suggested alterations in the taxonomy of W. African Kingfishers, SALOMONSEN 1170.

Alcedo a. atthis in Tripoli p. 141, MOLTONI 911.—*A. a. ispida* nesting notes in Renfrew, BROWN 156.—*A. quadribrachys*, *A. semitorquata* are subspecies of *A. atthis* p. 238, SALOMONSEN 1170.

Alcyon pusilla halmaherae subsp. n. Halmahera (Gilolo), SALOMONSEN Bull. Bt. Orn. Cl. 54 p. 86.

Corythornis cristata generic status and races discussed p. 240, SALOMONSEN 1170.

Halcyon senegalensis note col. pl., ANON 23.—*H. chelicuti* critical note on races p. 777, VINCENT 1437.—*H. chloris cyanescens* nesting and other habits in Java, SPENNEMANN 1268.—*H. pileatus* in Hong Kong col. pl., HERKLOTS 549.—*H. winchelli nigrorum* Negros I., *H. pileata palawanensis* Palawan subspp. n., HACHISUKA Bds. Philippines Pt. 3 p. 142.—*H. macleayi* taken in Tenimber perhaps a migrant p. 18, STRESEMANN 1324.

Lacedo pulchellus amabilis note p. 262, DE SCHAUENSEE 1190.

Sauropatis chloris range in Bengal and plumage of juv., LAW 732.

Tanygnathus lucionensis moro subsp. n. Sulu, HACHISUKA Bds. Philippines Pt. 3 p. 87.

FAM. BUCEROTIDAE.

* Breeding habits of Hornbills, MOREAU 932.

Aceros nepalensis addt. descr. p. 263, DE SCHAUENSEE 1190.

Hydrocorax hydrocorax basilanica subsp. n. Basilan I., HACHISUKA Bds. Philippines Pt. 3 p. 154.

Lophoceros e. erythrorhynchus nesting habits photo p. 34, GRANVIK 456.

Rhyticeros plicatus revision of races p. 8, R. p. dampieri New Britain, R. p. harterti Bougainville I., Solomons subspp. n. p. 9, MAYR Amer. Mus. Nov. 709.

FAM. UPUPIDAE.

Upupa epops an albino, ZIMMERMANN 1554.

FAM. MEROPIDAE.

Merops apiaster in Saxony, HEYDER 555; Status in Poland, DOMANIEWSKI 322.—*M. albicollis major* a doubtful race, nesting and migrations p. 227, BATES 57.

FAM. CAPRIMULGIDAE.

Antrostomus c. cubanensis recorded from I. of Pines, Cuba, nesting, BOND 110.

Caprimulgus europaeus feeding and other habits, MADON 813.—*C. inornatus* nesting and migration ranges p. 231, BATES 57.—*C. fervidus* eggs descr. from N. Rhodesia p. 38, LYNES & SCLATER 794.—*C. rufigena frenatus* nesting photos p. 42, GRANVIK 456.—*C. fossii mossambicus* taxonomy, field notes p. 793, VINCENT 1437.—*C. asiaticus siamensis* subsp. n. Siam, DE SCHAUENSEE Proc. Acad. Philad. 85 p. 373.—*C. macrurus* range and field notes, MARSHALL 835; Nesting and other habits in Java, COOMANS DE R. 245.—*C. macromystax* type identified, *C. vociferus setosus* subsp. n. Tamaulipas, Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 408.

Phalaenoptilus nuttallii nyctophilus subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 2.

FAM. MICROPIDAE
(olim CYPSELIDAE).

Movements and flights of Australian Swifts, BRIDGEWATER 137.

Apus apus note on races p. 233, BATES 57; Arrival dates in Ireland, LLOYD 753.

Collocalia esculenta natalis note on affinities p. 82, CHASEN 212.—*C. whiteheadi tsubame* subsp. n. Palawan, HACHISUKA Bds. Philippines Pt. 3 p. 176.

Micropus apus coition during flight, CHRISTLEIT 223.—*M. apus lawsonae* field notes, age by skull characters p. 795, *M. achimodzi* note fig. p. 796, VINCENT 1437.—*M. m. melba* a nesting site in Ceylon photo, PHILLIPS 1045.

Nephoecetes niger borealis off Guatemala, DAVIDSON 285.

Panyptila cayenensis nest and eggs in the Panama Canal Zone, GREENWAY 460.

FAM. TROCHILIDAE.

The Humming-birds of Brazil with a list of those observed during a visit there, BERLIOZ 84.

Habits and status of Humming birds in S. California, WOODS 1516.

A study of the flight of Hummingbirds, KNOLL 677.

Amazilia violiceps conjuncta subsp. n. S. Sonora, Mexico, GRISCOM Bull. Mus. Comp. Zool. 75 p. 377.

Anthoscenus constantii surdus subsp. n. Sonora, Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 439.

Chaetocercus cleavesi sp. n. N.E. Ecuador, MOORE Condor 1934 p. 1 col. pl.

Eriocnemis glaucopoides note col. pl. p. 72, BERLIOZ 85.

Hylocharis cyanea, *Chlorostilbon a. pucherani*, *Chrysolampis mosquitus* col. pls., CHAPLIN 203.

Metallura atrigularis descr. nest in Andes of Ecuador p. 145, MOORE 922.

Microlyssa exilis nesting notes in Montserrat W.I., ENGLISH 363.

Oreotrochilus adela (=estella) Orb. & Lafres. note col. pl. p. 72, BERLIOZ 85.

Phaethornis superciliosus display observed in Bt. Guiana, DAVIS 289.

Pygmornis ruber display observed in Bt. Guiana, DAVIS 289.

Stellula calliope lowei subsp. n. Guerrero, Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 380.

Vestipides aureliae tibialis Carriker = *V. a. domaniewkii* Sztolc. p. 318, CARRIKER 189.

ORDER TROGONES.

Apaloderma narina brachyurum in N. Angola p. 168, SICK 1238.

Harpactes e. erythrocephalus races in N. Siam p. 265, DE SCHAUENSEE 1190.—*H. e. chaseni* subsp. n. Malay Pen. RILEY Proc. Biol. Soc. 47 p. 115.

Pyrotrogon kasumba usa subsp. n. Sarawak, HARRISON & HARTLEY Bull. B.O.C. 54 p. 150.

Trogon elegans canescens subsp. n. Sonora Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 441.—*T. caligatus sallaei* is the name of Mexican race p. 392, v. ROSSEM 1142.

ORDER COCCYGES.

FAM. MUSOPHAGIDAE.

Turacus reichenowi ex. from Beira probably an aberrant *T. livingstonii* p. 767, VINCENT 1437.

FAM. CUCULIDAE.

Centropus melanops banken subsp. n. Samar, HACHISUKA Bds. Philippines Pt. 3 p. 221.

Chalcites malayanus poecilurus eggs descr. in nest, *Gerygone m. cobana* in Waigeu, SCHÖNWETTER 1203.—*C. basalis* parasitizing *Amytornis striatus* in S. Australia, MCGILP 800.

Chrysococcyx cupreus intermedius host *Dryoscopus cubla*, other habits p. 761, VINCENT 1437.

Clamator glandarius parasitizing *Lamprocolius n. bispecularis* in Damara-land, HOESCH 575.—*C. hypopinaris* nesting note parasitizing *Pycnonotus*, GODFREY 440.

Coccyzus minor continentalis Salvador p. 389, *C. m. cozumelae* Cozumel I. p. 390 subsp. n., v. ROSSEM Bull. Mus. comp. Zool. 77.

Cuculus c. canorus genetics of the inheritance of egg-colour, HUSKINS 597; Observations in Essex, OWEN 996; Recent obs. on parasitic habits in France, DE CHAVIGNY 217.—*C. c. bangsi* in Tripoli p. 140, MOLTONI 911.—*C. c. maximus* subsp. n. Thian Shan and Altai, NEUMANN Anz. orn. Ges. Bay. 2 p. 332.—*C. optatus* voice and cry, GROTE 478; In European Russia, DANILOWITSCH 276.—*C. clamosus* host *Dryoscopus cubla* in Belgian Congo p. 759, VINCENT 1437.

Dromococcyx phasianellus races defined and discussed p. 391, v. ROSSEM 1142.

Eudynamis scolopacea paraguana Palawan p. 213, *E. s. onikakko* Mindoro p. 214 spp. n., HACHISUKA Bds. Philippines Pt. 3.

Geococcyx velox review of races p. 457, *G. v. melanchima* Sonora Mexico p. 459, *G. v. longisignum* Honduras p. 464 subsp. n., MOORE Trans. S. Diego Soc. N.H. 7.

Lampromorpha caprius eggs in nest of *Ploceus* p. 763, VINCENT 1437.

Piaya cayana discussion of the two races, distr., habits, MACDONAGH 797.

Zanclostomus javanicus natunensis subsp. n. Natuna Is., CHASEN Bull. Raffles Mus. 9 p. 94.

ORDER SCANSORES.

FAM. INDICATORIDAE.

Indicator minor diadematus and other spp. and races at Mt. Elgon p. 49, GRANVIK 456.

Melignotheres minor senegalensis in S. Sahara note p. 237, BATES 57.

FAM. CAPITONIDAE.

Buccanodon anchietae katangae subsp. n. Belgian Congo, VINCENT Bull. B.O.C. 54 p. 176.—*B. anchietae stresemanni* subsp. n. Urungu Tanganyika Terr., GROTE Orn. Monatsb. 1934 p. 86.

Calorhamphus fuliginosus hayi plumage note p. 2, DUPOND 339.

Cholorhea mystacophanes immature plumage p. 254, DE SCHAUNSEE 1190.

Cyanops franklini trangensis subsp. n. Peninsular Siam, RILEY Proc. Biol. Soc. 47 p. 116.

Lybius leucocephalus albicauda note p. 64, LYNES 793.—*L. vieilloti rubescens* taxonomic note p. 235, BATES 57.

Megalaima v. virens in Hong Kong note col. pl., HERKLOTS 547; in S. China, habits, MELL 881.

Mesobucco duvaucelii cyaneus subsp. n. N. Borneo, HARRISON & HARTLEY Bull. B.O.C. 54 p. 151.—*M. d. orientalis* a good race p. 256, DE SCHAUNSEE 1190.

ORDER PICIFORMES.

FAM. BUCCONIDAE.

Malacoptila costancensis Cab. type examined and identified p. 408, v. ROSSEM 1142.

Notharchus hyperrhynchus cryptoleucus subsp. n. Salvador, v. ROSSEM Trans. S. Diego Soc. N.H. 8 p. 3.

FAM. PICIDAE.

Economics of British Woodpeckers, ANON. 22.

Lime trees "ringed" by Woodpeckers in Somerset, England, WYNN-EDWARDS 1525.

On the drumming of certain Woodpeckers, GROTE 480.

South Indian Woodpeckers, BETTS 93.

The tongue muscles and hyoid apparatus of Indian Woodpeckers, STEINBACHER 1290.

Asyndesmus lewis type locality established, DAVIS & STEVENSON 291.

Balanosphyra formicivora mearnsi not a valid race p. 444, v. ROSSEM 1142.

Brachypternus benghalensis races reviewed p. 292, *B. b. tekminae* subsp. n. Malabar p.-293, WHISTLER J. Bombay N.H. Soc. 37.

Centurus sulfuriventer Reichenb. type examined and identified p. 409, *C. uropygialis* races reviewed p. 411, v. ROSSEM 1142.

Coephloeus lineatus petersi Tamaulipas Mexico p. 11, *C. l. obsoletus* Sonora Mexico p. 12 subsp. n. and notes on synonymy and taxonomy of other races, v. ROSSEM Trans. S. Diego Soc. N.H. 8.

Chrysocolaptes guttacristatus chersonesus distr. nomenclature and taxonomy p. 295, WHISTLER 1476.

Chrysophilus melanochlorus revision of races p. 297, *C. m. patagonicus* subsp. n. p. 302, Patagonia, LAUBMANN Verh. Orn. Ges. Bay. 20.

Colaptes auratus × *C. cafer* details of a family in Saskatchewan, TAVERNER 1359.—*Colaptes auratus luteus* notes on courtship, JOHNSON 626.—*C. cafer* food in Bt. Columbia, PEARSE 1016.—*C. cafer nanus* subsp. n. S. Luis Potosi, Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 381.

Dendropicus fuscescens hartlaubi taxonomy and races discussed p. 68, LYNES 793.

Dinopium javanense malabaricum nom. n. pro *D. j. rubropygialis* auct., WHISTLER J. Bombay N.H. Soc. 37 p. 294.

Dryobates major variability and revision of races p. 443, DÉMENTIEFF 302; A nest plunderer?, JIRSIK 625.—*D. syriacus romanicus* subsp. n. Roumania CĂTUNEANU, Notat. biol. 1 1933 p. 85.—*D. leucotos* distr. and status in Transcaucasia, DÉMENTIEFF 300.—*D. m. maharattensis* note on occurrence in

Madras p. 288, *D. h. hardwickii* type locality and note on races p. 289, WHISTLER 1476.—*D. hyperythrus minia-korum* Szechuan, *D. kizuki permutatus* Ussuriland, E. Siberia subsp. n., MEISE Abh. Mus. Dresden 18 no. 2.—*D. cabanisi cadwaladeri* subsp. n. S. Shan States, DE SCHAUENSEE Proc. Acad. Philad. 85 p. 371.—*D. moluccensis apo* subsp. n. Mindanao, HACHISUKA Bds. Philippines Pt. 3 p. 235.—*D. pubescens* distr. in Kansas, LONG 760.—*D. villosus harrisi* display, PEARSE 1016.

Iynx ruficollis pulchricollis range and characters p. 230, BELIOZ 81.

Micropternus brachyurus discussion on races p. 290, WHISTLER 1476.

Picus martius in Prov. Treviso, Italy, NINNI 977.—*P. canus* discussion of Kwei-chow race p. 394, YEN 1536.—*P. nr. squamatus flavirostris* from Shensi descr. p. 25, SEYS & LICENT 1227.—*P. scalaris*, *P. castaneus* Wagl. note on types p. 412, v. ROSSEM 1142.

Sphyrapicus v. varius wintering at Ipswich, Mass., TOWNSEND 1399.

Thripias namaquus turkanae subsp. n. Elgon, Kenya Colony, GRANVIL Rev. zool. bot. afr. 25 p. 54.—*T. namaquus saturatus* subsp. n. Ubangi-Chari distr., BERLIOZ Bull. Mus. Hist. nat. Paris (2) 6 p. 230.

Vivia innominatus malayorum ranges to Madras Pres. p. 296, WHISTLER 1476.

Zebrapicus kaupii Bp. note on type p. 411, v. ROSSEM 1142.

ORDER EURYLAEIMIFORMES.

Corydon c. laeensis racial characters p. 245, DE SCHAUENSEE 1190.

Serilophus lunatus elizabethae recorded in N. Siam, H. M. SMITH 1246.

ORDER MENURIFORMES.

Menura novae-hollandiae incubation period, BRADFORD 131.

ORDER PASSERIFORMES.

FAM. PTEROPTOCHIDAE.

Scelorchilus rubecola mochae subsp. n. Mocha I., Chile, CHAPMAN Amer. Mus. Nov. 762 p. 3.

FAM. FORMICARIIDAE.

Cranioleuca gutturata peruviana is quite a distinct race p. 322, CARRIKER 189.

Drymophila caudata peruviana note p. 325, CARRIKER 189.

Grallaria ruficapilla interior Western Peru p. 16, *G. macularia diversa* Rio Amazonas, Peru, p. 19 and notes on other Peruvian spp., ZIMMER Amer. Mus. Nov. no. 703.

Hylophylax punctulata subochracea subsp. n. Brazil and notes on other Peruvian and Brazilian spp., ZIMMER Amer. Mus. Nov. no. 703 p. 1.

Myrmeza hemimelaena castanea a doubtful race p. 325, CARRIKER 189.

Myrmothera campanisoma signata E. Ecuador p. 9, *M. c. dissors* Venezuela p. 11 subsp. n., ZIMMER Amer. Mus. Nov. no. 703.

Rhopornis ardesiaca descr. of female and taxonomic and historical notes, NAUMBURG 957.

Sakesphorus bernardi shumbae subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 323.

Synallaxis erythrorhox Sel. history of type p. 413, v. ROSSEM 1142.—*S. cherriei* nom. n. pro *S. rufogularis* Cherrie preocc. p. 321, *S. cherriei saturata* subsp. n. Peru p. 321, CARRIKER Proc. Acad. Philad. 86.

Thamnophilus punctatus nesting and other habits on Barro Colorado Island, Canal Zone, SKUTCH 1241.—*T. amazonicus huallagae* subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 324.

FAM. DENDROCOLAPTIDAE.

Aphrastura spinicauda bullocki subsp. n. Mocha I, Chile p. 2 and note on *A. s. fulva* of Chiloe I. p. 6, CHAPMAN Amer. Mus. Nov. 762.

Campyloramphus trochilirostris devius Bolivia p. 5, *C. t. snethlugeae* Amazonas Brazil p. 6, *C. t. notabilis* Rio Madeira p. 8, *C. procurvoides probatus* Rio Madeira p. 10, *C. p. sanus* Venezuela p. 12 subsp. n., ZIMMER Amer. Mus. Nov. no. 728.

Dendrexetastes rufigula moniliger subsp. n. Amazonas Brazil, ZIMMER Amer. Mus. Nov. no. 728 p. 2.

Dendrocincla merula olivascens Amazonas, D. m. *badia* Rio Tocantins p. 16 subsp. n., *D. fuliginosa phaeochroa* note p. 18, ZIMMER Amer. Mus. Nov. no. 728.

Dendrocolaptes certhia 3 races discussed p. 1, *D. picumnus olivaceus* subsp. n. Bolivia p. 5, *D. platyrostris* note p. 7, ZIMMER Amer. Mus. Nov. 753.

Dendroplex picus peruvianus Peru p. 14, *D. p. duidae* Venezuela p. 15 subsp. n., *D. necopinus* sp. n. Rio Negro p. 17, ZIMMER Amer. Mus. Nov. 753.

Doconychura longicauda races discussed p. 10, ZIMMER 1553.

Furnarius rufus nest in a street lamp, TREMOLERAS 1400; another curious nest, HARPER 509.—*F. leucopus pallidus* subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 320.

Glyphorhynchus spirurus rufigularis Venezuela p. 3, *G. s. inornatus* Amazonas p. 5 subsp. n., ZIMMER Amer. Mus. Nov. no. 757.

Hylexetastes stresemanni insignis subsp. n. Rio Negro Brazil, ZIMMER Amer. Mus. Nov. 753.

Lepidocolaptes lacrymiger three races discussed p. 21, *L. albolineatus duidae* subsp. n. Venezuela p. 25 and notes on other races, ZIMMER Amer. Mus. Nov. no. 753.—*L. leucogaster umbrosus* subsp. n. Sonora, Mexico, MOORE Proc. Biol. Soc. 47 p. 87.

Margarornis squamigera peruviana taxonomy p. 13, ZIMMER 1553.

Premnoplex brunnescens notes on two races p. 15, ZIMMER 1553.

Pseudocolaptes boissoneaui auritus type locality designated p. 321, CARRIKER 189.

Sclerurus caudacutus pallidus Amazonas p. 20, *S. c. insignis* L. Amazonas p. 21 subsp. n. and notes on other spp., ZIMMER Amer. Mus. Nov. no. 757.

Sittasomus griseicapillus axillaris subsp. n. Amazonas, ZIMMER Amer. Mus. Nov. no. 757 p. 9.

Xiphocolaptes promeropirhynchus six races discussed p. 9, ZIMMER 1551.

Xiphorhynchus taxonomic and nomenclatural notes p. 1, *X. spixii ornatus* Peru p. 7, *X. spixii similis* Colombia p. 9, *X. ocellatus perplexus* Peru p. 15, *X. o. brevirostris* S.E. Peru p. 18 subspp. n., ZIMMER Amer. Mus. Nov. no. 756.—*X. obsoletus parvimaculatus* subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 323.

FAM. TYRANNIDAE.

Camptostoma imberbe in Guerrero note p. 384, GRISCOM 470.—*C. obsoletum maronica* Carriker should read *C. o. maranonica* p. 334, CARRIKER 189.

Elaeena mesoleuca [Licht.] note on type and its identification p. 350, v. ROSSEM 1144.—*E. viridicata huallagae* subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 327.

Empidonax traillii brewsteri with an abnormal white head 2 photos, BENNETT 75.—*E. t. adastus* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 3.—*E. ridgwayi* note on type = *E. t. traillii* p. 350, v. ROSSEM 1144.—*E. affinis*, *E. difficilis* nomenclature and taxonomy p. 392, v. ROSSEM 1142.—*E. rubicundus* Cab. & Heine note on type p. 414, v. ROSSEM 1142.

Leptopogon superciliaris intermedius subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 328.

Microticus fasciatus sp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 328.

Mionectes striaticollis flaviventris subsp. n., CARRIKER Proc. Acad. Philad. 86 p. 329.

Myiarchus crinitus boreus nesting and other habits, MOUSLEY 939.—*M. nigricapillus* Cab. note on type and type loc. p. 414, v. ROSSEM 1142.—*M. cinerascens* discussion of races and taxonomy p. 387, GRISCOM 470.

Myiochanes virens twilight song, ALLARD 10.

Myiodynastes solitarius remarkable nest, PEREYRA 1027.

Myiornis auricularis berlepschii subsp. n. Bahia Brazil, PINTO Bol. Biol. S. Paulo 1 p. 9.

Muscivora forficata recorded for Massachusetts, BAGG 34.

Nuttallornis borealis Swains. note on type p. 352, v. ROSSEM 1144.

Ochthoeca diadema cajamarcae subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 326.

Phaeotriccus hudsoni ranges to Matto Grosso p. 387, STONE & ROBERTS 1314.

Pipramorpha macconnelli peruana Carriker = *P. o. oleaginea* p. 329, CARRIKER 189.

Pitangus s. bolivianus a melanistic variation, SERIÉ 1220.

Pseudocolaptes dinellianus and other spp., taxonomy and distribution p. 321, LAUBMANN 729.

Pyrocephalus mexicanus note on type, *P. rubinus flammeus* subsp. n. California, v. ROSSEM Trans. S. Diego Soc. N.H. 7 p. 353.

Pyrrhomyias cinnamomea pyrrhoptera characters discussed p. 327, CARRIKER 189.

Tyranniscus chrysops flavifrons distr. note p. 327, CARRIKER 189.

Tyrannus tyrannus hespericola subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 3.—*T. vociferans xenopterum* subsp. n. Guerrero, Mexico, GRISCOM Bull. Mus. Comp. Zool. 75 p. 391.

FAM. PIPRIDAE.

Masius chrysopterus peruvianus subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 320.

Neopelma inornata sp. n. Bahia Brazil, PINTO Bol. Biol. S. Paulo 1 p. 12.

FAM. COTINGIDAE.

Pachyrhamphus versicolor meridionalis subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 319.

FAM. PHYTOTOMIDAE.

Phytotoma rutila taxonomy and nomenclature p. 324, LAUBMANN 729.

FAM. PITTIDAE.

Pitta megarhyncha recorded from Bengal, WHISTLER 1475.—*P. cucullata* breeding notes in captivity, DELACOUR 294.—*P. soror petersi* nom. n. pro *P. s. intermedia* Del. preocc., DELACOUR Bull. B.O.C. 54 p. 97.—*P. persola* sp. n. Palawan, BRODKORB Occ. Pap. Mus. Zool. Univ. Mich. no. 279 p. 1.

FAM. HIRUNDINIDAE.

Delichon urbica census nr. Manchester, CRAMP & WARD 257.

Hirundo rustica experiments in orientation and home-finding, WODZICKI & WOJTUSIAK 1502; Mortality among nestlings, EMMET 360; Diptera fed to nestlings, THOMAS 1372.—Census nr. Manchester, CRAMP & WARD 257; Migrations at Wismar in 1930 and 1931, VIERECK 1428; Addt. ringed birds taken in tropical Africa, TOM DIEK 309.—*H. rustica gutturalis* discussion of status p. 46, *H. daurica gephyra* subsp. n. Szechuan p. 48, MEISE Abh. Mus. Dresden 18 no. 2.—*H. lucida claru* range, habits p. 685, BATES 57.—*H. nigrorufa* in N. Rhodesia p. 47, LYNES & SCLATER 794.—*H. senegalensis aschani* subsp. n. Mt. Elgon, Kenya Col., GRANVIK Rev. zool. bot. Afr. 25 p. 113.—*H. daurica rufula* building on houses in Syria, v. HEDEMAN 531.—*H. atrocaerulea* nesting habits and discussion of status and taxonomy p. 99, LYNES 793.—*H. tahitica frontalis* nesting note at Vuatom nr. New Britain, MEYER 886.—*H. tahitica ambiens* subsp. n. New Britain and discussion of taxonomy and other races, MAYR Amer. Mus. Nov. 709 p. 12.

Hylochelidon ariel habits photo, nest, ELLIOTT 357; Unusual nesting sites, HINDWOOD 571.

Iridoprocne bicolor singing habits, WEYDEMEYER 1473; Nest distr. and survival nr. Cape Cod, U.S.A., LOW 776.

Petrochelidon preussi range and nesting habits p. 686, BATES 57.—*P. n. nigricans* winters in New Guinea and neighbouring Islands, STRESEMANN 1318.—*P. albifrons aprophata* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 6.

Psolidoprocne albiceps female black-headed in N. Rhodesia p. 47, LYNES & SCLATER 794.

Ptyonoprocne rufigula fusciventris in Iringa nesting habits and status p. 101, LYNES 793.

Stelgidopteryx fulvipennis identification of type and taxonomic note p. 394, v. ROSSEM 1142.—*S. ruficollis aphractus* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 5.

FAM. MUSCIPAPIDAE.

Batis molitor review of races, VINCENT Ibis 1934 p. 92.—*B. margaritae* sp. n. Benguela Angola, BOULTON Proc Biol. Soc. 47 p. 49.

Cyornis rufigustra karimatensis is a distinct race p. 161, CHASEN & KLOSS 214.—*C. caerulea albiventer* subsp. n. Sumatra, JUNGE Ardea 22 p. 105.

Erannornis longicauda teresila nest and eggs in Uganda, PITMAN 1054.

Gerygone murina de Vis = *Acanthiza murina* (de V.), MEISE 878.

Heteromyias cinereifrons distr. col. pl., MACK 804.

Hypothymis azurea karimatensis addt. note p. 161, CHASEN & KLOSS 214.

Monachella mulleriana coultasi subsp. n. New Britain, MAYR Amer. Mus. Nov. 709 p. 14.

Monarcha frater kunupi subsp. n. Dutch New Guinea, HARTERT & PALUDAN Orn. Monatsb. 1934 p. 45.

Muscicapa atricapilla method of feeding young birds, BERGMAN 79.—*M. h. hypoleuca* breeding habits in Wales, LLEWELYN 752.

Muscicapula m. mesoleuca in Siam, note p. 214, DE SCHAUENSEE 1190.

Myiagra caledonica revision of races p. 435, *M. c. marinae* subsp. n. New Hebrides p. 437, SALOMONSEN Journ. Orn. 1934.

Newtonia brunneicauda inornata subsp. n. W. Madagascar, SALOMONSEN Ibis 1934 p. 382.—*N. b. monticola* subsp. n. C. Madagascar, SALOMONSEN Novit. zool. Tring 39 p. 207.

Niltava g. grandis and other spp. notes p. 217, DE SCHAUENSEE 1190.

Parisoma lugens clara subsp. n. Matengo-highlands, Tang. Terr., MEISE Orn. Monatsb. 1934 p. 16.

Petroica notes on the Australasian spp. and races, *P. multicolor becki* Kandavu, Fiji p. 5, *P. m. feminina* Mai I., New Hebrides p. 8, *P. m. soror* Vanna Lava, Banks Is. p. 9, *P. m. polymorpha*, S. Christobal, Solomons p. 11, *P. m. septentrionalis* Bougainville, Solomons p. 14, *P. m. kulambangrae* Kulambangra, Solomons p. 16 subsp. n. and notes on "retarded" and "progressive" plumages, MAYR Amer. Mus. Nov. 714.

Poecilodyras cyana atricapilla subsp. n. Dutch New Guinea, HARTERT & PALUDAN Orn. Monatsb. 1934 p. 45.—*P. nitida* de Vis = *Monarcha chysomelu aruensis* p. 79, MEISE 878.

Pogonocichla stellata races discussed p. 84, GRANVIK 456.

Rhipidura oreas de Vis = *R. rufiventris gularis* Müller p. 79, MEISE 878.

Seicercus umbrovirens mackenzianus nest and eggs photo p. 87, GRANVIK 456.

Seisura inquieta recorded for New Guinea, STRESEMANN 1320.

Terpsiphone sababensis sp. n. S.E. Siam, RILEY Proc. Biol. Soc. 47 p. 155.

FAM. CAMPEPHAGIDAE.

Campephaga flava subsp.? on the race in N. Angola p. 168, SICK 1238.

Graucalus macei melliannus Stres. = *G. m. rexpineti* p. 303, YEN 1537.

Pericrocotus brevirostris affinis critical notes p. 361, KINNEAR 662.—*P. flammeus elegans* note on N. Siam race p. 222, DE SCHAUENSEE 1190.

FAM. PYCNONOTIDAE.

Review and distribution of the Asiatic Pycnonotidae, SNOUCKAERT v. S. 1253.

Aegithina t. tiphia race in N. Siam p. 199, DE SCHAUENSEE 1190.—*A. tiphia scapularis* general habits in Java, SPENNEMANN 1266.

Chloropsis hardwickii lazulina taxonomy p. 297, YEN 1537.

Elathea flaviventris races p. 203, DE SCHAUENSEE 1190.

Otocompsa emeria col. pl. and notes on other Hong Kong Bulbuls, HERKLOTS 547; PEREIRA 1022.

Pycnonotus tricolor minor taxonomy note p. 233, BERLIOZ 81.—*P. t. nannmanni* subsp. n. Matengo highlands, Tanganyika Terr., MEISE Orn. Monatsb. 1934 p. 116.—*P. cafer klossi* race in Siam p. 205, DE SCHAUENSEE 1190.—*P. sinensis* races and taxonomy p. 299, YEN 1537.

Pyrrhurus flavicollis revision of races, taxonomy and nomenclature, BANNERMAN 48.

Stelgidillas gracilirostris chagwensis a good race notes p. 68, GRANVIK 456.

FAM. TIMALIIDAE.

A revision of the Timaline birds of Madagascar, SALOMONSEN 1165.

Actinodura nipalensis wardi addt. note p. 354, KINNEAR 662.

Alcippe nepalensis races reviewed p. 35, *A. variegaticeps* note col. pl. p. 38, YEN 1537.

Androphobus gen. n. for type *Androphilus viridis* Rothschild & Hartert, HARTERT & PALUDAN Orn. Monatsb. 1934 p. 46.

Arrenga melanura taxonomy and nomenclature p. 7, DUPOND 339.

Crateroscelis robusta steini, *C. nigrorufa blissi* subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 46.

Dryonastes ruficollis p. 98 col. pl., *D. c. caerulatus* p. 100 descr. habits, INGLIS 605.

Gampsorhynchus rufulus torquatus note p. 188, DE SCHAUENSEE 1190.

Garrulax leucolophus diardi note p. 183, DE SCHAUENSEE 1190.—*G. lanceolatus latouchei* note p. 384, YEN 1536.—*G. milnei sinianus* and other Chinese spp., taxonomic and other notes p. 25, YEN 1537.

Grammatophila striata cranbrookii addt. note p. 353, KINNEAR 662.

Illadopsis cleaveri poensis subsp. n. Fernando Po., BANNERMAN Bull. B.O.C. 54 p. 107.

Leioptila melanoleuca lacta, *L. a. annectens* taxonomy and ranges p. 194, DE SCHAUENSEE 1190.—*L. desgodinsi tonkinensis* subsp. n. Tonkin, YEN Sci. Journ. Univ. Sun Yat-Sen 6 p. 8.—*L. lutea* races reviewed p. 41, YEN 1537.

Malacocincla canicapillus longstaffi subsp. n. C. Borneo, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 152.

*Mesia argentauris takanensis** sp. n. Malay Peninsula, YEN Sci. Journ. Univ. Sun Yat-Sen 6 no. 2 p. 63.

Minla ignotincta Chinese races discussed p. 42, YEN 1537.

Mixornis gularis sulphurea taxonomy and races p. 192, DE SCHAUENSEE 1190.

* This race is attributed to Robinson but his description was never published and this is the first mention of it in print.

Napothera epilepidota delacouri subsp. n. Kwangsi China, YEN Oiseau 1934 p. 32.

Orthonyx review of spp. col. pl., MACK 805.—*O. temminckii* history, habits etc. col. pl., HINDWOOD 570.

Oxylabes zosterops andapae, *O. z. marvo-antsetrae* N.E. Madagascar p. 69, *O. z. ankafanae* E. Madagascar p. 70 subsp. n., SALOMONSEN Ann. Mag. N.H. (10) 14.

Paradoxornis verreauxi craddocki note, *Suthora gularis pallida* La Touche probably a synonym p. 490, YEN 1537.—*P. alphonsiana stresemanni* subsp. n. Kweichow China, YEN J. Orn. 1934 p. 383.

Pomatorhinus ruficollis races revised p. 30, YEN 1537.—*P. schisticeps* races in Siam p. 185, DE SCHAUENSEE 1190.

Pseudalcippe pyrrhopterus note on Kenya races p. 65, GRANVIK 456.

Pteruthius aenobarbes melanotis races and ranges p. 355, KINNEAR 662.—*P. flaviscapitis*, *P. aenobarbus* races revised, *P. æ. yaoschanensis* col fig. p. 44, YEN 1537.—*P. erythropterus* discussion of races p. 74, YEN 1538.

Rhinocichla mitrata damnata subsp. n. Sarawak, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 154.

Siva and allied genera (including *Heterophasia*, *Leioptila*, *Nigravis*, *Actinodura*, *Liocichla*, *Yuhina*, *Erpornis*, *Myzornis*, *Leiothrix*, *Mesia*, *Cutia*, *Pteruthius*) revisiou of spp. and races with descriptions and keys, YEN 1538.

Stachyris nigriceps race in Siam p. 191, DE SCHAUENSEE 1190.—*S. ruficeps* races reviwed p. 33, YEN 1537.—*S. larvata vermiculata* subsp. n. Sarawak, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 153.

Suthora poliotis feae at Cheng Mai, Siam p. 181, DE SCHAUENSEE 1190.

Trochalopteron erythrocephalum forresti and other spp. in N.E. Burma notes p. 352, KINNEAR 662.

Turdoides bicolor nesting notes in Damaraland p. 329, HOESCH 573.

Yuhina gularis note col. pl., SHEERIFF 1236.—*Y. diademata delacouri* nom. n. pro *Y. d. obscura* Del. and Jabouille nec Rothschild p. 46, YEN 1538.

FAM. TROGLODYTIDAE.

Catalogue of American spp. p. 110, HELLMAYR 536.

Campylorhamphus trochilirostris omisus subsp. n. Bahia, Brazil with revision of other races, PINTO Bol. Biol. S. Paulo 1 p. 61.

Cistothorus stellaris distr. and breeding habits in Quebec Prov., MOUSLEY 941.—*C. plutensis falklandicus* subsp. n. Falkland Is., CHAPMAN Amer. Mus. Nov. 762 p. 7.

Ferminia cerverai field notes on food and voice, BRUNER 160.

Heleodytes capistratus note on races p. 457, v. ROSSEM 1142.—*H. brunnei-cephalus yucatanicus* subsp. n. Yucatan, HELLMAYR Cat. Bds. Americas pt. 7 p. 150.

Pheugopedius pleurostictus oblitus subsp. n. Salvador, v. ROSSEM Bull. Mus. Comp. Zoöl. 77 p. 399.

[*Salpinctes*] *Troglodytes latifasciatus* identification of type p. 416, v. ROSSEM 1142.

Spelaeornis longicaudatus kauriensis note p. 207, DE SCHAUENSEE 1190.—*S. souliei sherriffi* subsp. n. Bhutan, KINNEAR Bull. B.O.C. 54 p. 107.

Troglodytes t. hirtensis of St. Kilda, numbers, territorial and food habits, HARRISSON & BUCHAN 517.—*T. a. aedon* ecological relations with Maple-Beech Association and other controlling influences on distribution, KENDIGH 657.—*T. domesticus* revision of races etc. p. 87, *T. d. baldwini* subsp. n. Ohio p. 90, OBERHOLSER Ohio J. Sci. 34.—*T. brunneicollis compositus* subsp. n. Tamaulipas, Mexico and note on other races, GRISCOM Bull. Mus. Comp. Zoöl. 75 p. 394.—*T. musculus bonariae* nesting notes, TREMOLERAS 1400.

Thryomanes bewicki niceae subsp. n. Oklahoma, SUTTON Auk 1934 p. 217.—*T. bewickii atratus* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 8.

Thryothorus leucotis zulienensis subsp. n. Venezuela, HELLMAYR Cat. Bds. Americas pt. 7 p. 150.

FAM. CINCLIDAE.

Catalogue of the American spp. p. 106, HELLMAYR 536.

Cinclus cinclus subaqueous and other habits, MADON 813; Method of walking under water, DE VOGUÉ 1441.—*C. c. medius* present and past status in Saxony, DATHE 279.—*C. pallasi marita* races and taxonomy p. 357, KINNEAR 662.

FAM. MIMIDAE.

Catalogue of American spp. p. 295, HELLMAYR 536.

Dumetella carolinensis migration studies, GILL 434.

Mimus gilvus clarus subsp. n. Yucatan, v. ROSSEM Bull. Mus. Comp. Zool. 77 p. 401.

[*Toxostoma*] *Turdus deflexus* Licht. = *Toxostoma c. curvirostra* p. 416, v. ROSSEM 1142.

FAM. TURDIDAE.

Catalogue of American spp. p. 350, HELLMAYR 536.

List of the Turdidae of Poland with critical remarks on taxonomy and distribution, DUNAJEWSKI 334.

Histology of alimentary canal in Thrushes, CLARA 224.

Cercomela melanura ultima addt. note habits p. 453, BATES 57.

Cossypha bocagei, *C. semirufa* list of recognized races, GROTE 476.

Cossyphicula gen. n. for type *Callene roberti* Alex., GROTE Anz. Orn. Ges. Bayern 2 1934 p. 311.

Erithacus rubecula courting habits, DOBRICK 319.—*E. r. rubecula*, *E. r. melophilus* migration movements, PAYN 1015.—*E. r. melophilus* four nests and broods, OSMASTON 995.

Erythropygia leucophrys revision with descr. keys p. 158, *E. l. eluta* Jubaland p. 159, *E. l. jungens* Sotik Kenya Col. p. 162 subsp. n., BOWEN Proc. Biol. Soc. 47.

Hylocichla guttata oromela subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 8.—*H. m. minima* in Georgia and Ohio, GREENE 459.

Ianthocincla davidi chinganica subsp. n. Manchuria, MEISE Abh. Mus. Dresden 18 no. 2 p. 41.

Irania gutturalis in Transcaucasia p. 158, WOROBIEV 1517.

Kittacincla malabarica tricolor in Karimata Is. nr. Borneo p. 162, CHASEN & KLOSS 215.

Lucinia m. megarhyncha census and ecology in Worcestershire, HARTMAN 521; In Devon p. 158, BUTTERS 170.—*L. svecica* in S. Bavaria, races discussed, SOMMERFELD 1260.—*L. svecica mannetum* subsp. n. W. France, MAYAUD Bull. B.O.C. 54 p. 179.—*L. calliope*, *L. sibilans* breeding and other habits, GROTE 479.

Monticola saxatilis, *M. solitarius* aviculture and general notes in France, LEGENDRE 735.—*M. s. solitaria* in S. Sahara p. 450, BATES 57.—*M. s. scor-teccii* subsp. n. C. Sahara, MOLTONI Atti Soc. Ital. 73 p. 366 col. pl.—*M. imerina interioris* subsp. n. C. Madagascar, SALOMONSEN Novit. zool. Tring 39 p. 211.

Myrmecocichla aethiops races, habits p. 455, BATES 57.

Enanthe enanthe races, ranges, migrations col. pl., SALOMONSEN 1175.—*E. e. schiöleri* recorded in Holland, KOCH 678a.—*E. isabellina*, *E. deserti* making their own burrows, GROTE 480.

Pentholea albifrons limbata note p. 232, BERLIOZ 81.

Phoenicurus o. gibraltariensis present status in Great Britain, HALE 494.—*P. a. aureus* nesting and other habits in N. China, WILDER 1484.

Prunella modularis hibernicus Ireland, *P. m. hebridum* S. Uist Hebrides subsp. n., MEINERTZHAGEN Ibis 1934 p. 57.

Rhodhophila ferrea haringtoni critical note p. 357, KINNEAR 662.

Saxicola torquata theresae subsp. n. S. Uist Hebrides, MEINERTZHAGEN Ibis 1934 p. 56.—*S. t. ankaratrae* subsp. n. C. Madagascar, SALOMONSEN Novit. zool. Tring 39 p. 210.—*S. t. kleinschmidti* subsp. n. Szechuan, MEISE Abh. Mus. Dresden 18 no. 2 p. 44.

Sialia sialis nesting and banding studies at Cape Cod U.S.A., LOW 777.—*S. currucoides* song, LUMLEY 789; Song in Montana, WEYDEMAYER 1474; Unusual nesting habits in Wyoming, MURIE 947.

Tarsiger c. cyanurus breeding and other habits p. 103, GROTE 479.

Thamnodia cinnamomeiventris two races in French Sudan p. 454, BATES 57.

Turdus musicus coburni recorded for Kent, HARRISON 514; In S. Uist p. 56, MEINERTZHEN 868; Nesting in urban surroundings in Iceland, TIMMERMAN 1382.—*T. merula* roosts and roosting habits, HEYDER 554; Two nesting in close company, GERBER 420; Pairing habits, GARNIER 418; Feeding on rose-fruits, FLINTOFF 383.—*T. p. philomelos* migrations, EICHLER 351; List of recoveries of ringed birds, EICHLER 352.—*T. philomelos* is antedated by *T. ericetorum* for the Song-Thrush and other consequent changes in nomenclature pp. 635, 832, ANON. 21; *T. ericetorum* is the specific name of the Song Thrush, note on nomenclature, WITHERBY 1497.—*T. atrogularis* first described by Jaroki in 1819 p. 299, DUNAJEWSKI 334.—*T. hortulorum* juv. plumage p. 42, MEISE 872.—*T. olivaceus elgonensis* nest and egg photo p. 76, GRANVIK 456.—*T. ruficollis* recorded from N.E. Burma p. 359, KINNEAR 662.—*T. javanicus erythropleurus* affinities p. 83, CHASEN 212.—*T. migratorius permixtus* subsp. n. Guerrero Mexico, GRISCOM Bull. Mus. Comp. Zool. 75 p. 390.—*T. rufopalliatu grisor* subsp. n. Sonora, Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 461.—*T. falcklandii mocha* subsp. n. Mocha I., Chile, CHAPMAN Amer. Mus. Nov. 762 p. 3.

FAM. SYLVIIDAE.

Catalogue of American spp. p. 484, HELLMAYR 536.

Acrocephalus palustris range in France, MAYAUD 855.—*A. s. scirpaceus* status in Finland, PALMGREN 1004.—*A. paludicola* song, SICK 1237.—*A. stentoreus brunescens* in Kwei-chow, status p. 389, YEN 1536.—*A. dumetorum gabrielae* subsp. n. S.W. Asia Minor, NEUMANN Verh. orn. Ges. Bay. 20 p. 470; = *Hippolais pallida elaeica* Lind., NEUMANN 964.

Apalis a contribution to the taxonomy p. 87, LYNES 793.—*A. flavida* races discussed p. 92, GRANVIK 456.—*A. rufogularis brauni* subsp. n. Benguela, STRESEMANN Orn. Monatsb. 1934 p. 156.—*A. macphersoni* sp. n. Cholo Mt. Nyasaland, VINCENT Bull. B.O.C. 54 p. 177.

(N-4573 g)

Bradypterus cinnamomeus nyassae taxonomy and other notes p. 85, LYNES 793.—*B. p. pryeri* status in Japan, KURODA 702.

Calamornis nilotica, *C. leptorhyncha* discussion of races, species, habits, taxonomy p. 42, LYNES & SCLATER 794.

Camaroptera brevicaudata albiventris coastal Kenya Colony p. 101, *C. b. aschani* Mt. Elgon p. 102 subsp. n., GRANVIK Rev. zool. bot. afr. 25.

Cettia c. cetti breeding range and habits in France, CHAVIGNY 216.—*C. c. schiebeli* subsp. n. Sicily, ROKITANSKY Falco 30 p. 6.

Cisticola account of spp. collected in Angola, Belgian Congo etc., LYNES & SCLATER 794.—*C. natalensis matengorum* subsp. n. Matengo-highlands, Tanganyika Terr., MEISE Orn. Monatsb. 1934 p. 117.—*C. chubbi* nest photo p. 105, GRANVIK 456.—*C. exilis polionota* subsp. n. New Britain, MAYR Amer. Mus. Nov. 709 p. 14.

Herbiocula schwarzi eggs from Manchuria desc., JOURDAIN 634.

Hippolais pallida elaeica status in Bulgaria, PATEEF 1013.—*H. languida* ranges north to Transcaucasia p. 157, WOROBIEV 1517.

Locustella fluviatilis nesting notes in Hungary, GILBERT 430.—*L. luscinioides* song, SICK 1237; Range and status in Brandenburg, PEUS 1041.—*L. n. naevia* field observations in Sussex, WALPOLE-BOND 1453.—*L. certhiola sparsistriata* subsp. n. W. Siberia, MEISE Abh. Mus. Dresden 18 no. 2 p. 39.

Malurus revision with keys, descr., p. 100, *M. (M.) splendens aridus* W. Australia p. 108, *M. (M.) amatilis clarus* Queensl. p. 114, *M. (Rosina) coronatus caeruleus* N. Terr. p. 124 subsp. n., MACK Mem. Nat. Mus. Melbourne no. 8.

Neomixis viridis delacouri N.E. Madagascar p. 63, *N. striatigula pallidior* S. W. Madagascar p. 65, SALOMONSEN Ann. Mag. N.H. (10) 14.

Nesillas typica monticola addt. descr. p. 212, SALOMONSEN 1173.

Oreopneuste fuscata discussion of race in Transbaikalia p. 164, DOMANIEWSKI 320,

Orthotomus sepium palliolatus remarks p. 170, CHASEN & KLOSS 215.

Poliophtila caerulea deppei subsp. n. Yucatan, v. ROSSEM Bull. Mus. comp. Zoöl. 77 p. 402.—*P. melanura californica* parasitized by *Molothrus ater obscurus*, HANNA 503.

Prinia flavicans nesting notes in Damaraland p. 329 photos, HOESCH 573.

Phylloscopus the four species in France, distinction in field and study, migrations, notes and general habits, JOUARD 632.—*P. c. collybita* remarkable mating and nesting habits, HURRELL 596.—*P. c. collybita* and other spp. in S. Sahara p. 461, BATES 57.—*P. trochilus acredala* strange behavior in captivity, PALMGREN 1005.—*P. sibilatrix* nesting date in Berkshire, GILES 433.—*P. b. bonelli* nesting notes in Switzerland, HEILFURTH 533.—*P. nitidus viridanus* in Rugen etc., BECKMANN 65.—*P. armandii perplexus* subsp. n. Yunnan, TICEHURST Bull. B.O.C. 54 p. 96.—*P. lorenzii* systematic status and relationships, STEGMANN 1285.

Sylvia c. curruca efforts at taming, LÖPMANN 769.—*S. nana*, *S. mystacea* ranging to S.E. Russia p. 162, VOROBIEFF 1445.—*S. ruppelli* nesting notes in Crete, MEIKLEJOHN 867.—*S. u. dartfordiensis* "territory" behaviour and other habits, VENABLES 1426.

FAM. VIREONIDAE.

Cyclarhis virenticeps revision of races p. 333, *C. v. griseipectus* subsp. n. Peru p. 334, CARRIKER Proc. Acad. Philad. 86.

Laetes osburni is a true *Vireo* fig. photo nest, BOND 111.

Lawrencina nana is a true *Vireo* allied to *V. modestus* figs. photo nest, BOND 111.

Vireo hypochryseus nitidus Sonora p. 465, *V. solitarius pinicolus* Chihuahua p. 467 subsp. n., v. ROSSEM Bull. Mus. comp. Zoöl. 77.—*V. pallens*, *V. ochraceus*, *V. semiflavus* all of Salvin identification of types and present taxonomy p. 416, v. ROSSEM 1142.

Vireosylva gilva leucopolia subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 9.

FAM. BOMBYCILLIDAE (olim AMPELIDAE).

Bombycilla garrula distr. in Denmark in winter, JESPERSEN 618; Recorded in Greenland, PETERS 1032; Recent invasion of middle Europe, SCHÜZ 1212; Incursion in N.W. Saxony, DATHE 278; Food in winter in Hungary, GRESCHIK 463.—*B. g. pallidiceps* at Ipswich Mass., TOWNSEND 1399.

Ptilogonys cinereus pallescens subsp. n. Guerrero, Mexico, GRISCOM Bull. Mus. Comp. Zoöl. 75 p. 398.

FAM. ARTAMIDAE.

Artamus superciliosus nesting and other notes in N.S. Wales, D'OMBRAIN 323.

FAM. PRIONOPIDAE.

Sigmodus scopifrons review of the races, SCPLATER 1218.

FAM. LANIIDAE.

Food habits of European and N. American Shrikes, MADON 814.

Chlorophoneus nigrifrons relationship to *C. münzneri* discussed p. 107, LYNES 793.

Dryoscopus angolensis and allied races discussion of taxonomy and nomenclature p. 170, SICK 1238.

Eulacestoma nigropectus clara subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 44.

Gymnorhina tibicen nesting notes, ELLIOTT 356.

Laniarius atrococcineus nesting in Damaraland p. 334 photo, HOESCH 573.

Lanius e. excubitor nesting notes in Denmark, MEINHARDT 871.—*L. e. elegans* race in S. Sahara discussed p. 688, BATES 57.—*L. pallidirostris* nesting in Astrachan Steppes, VOROBIEFF 1445.—*L. cristatus confusus* status, measurements p. 34, MEISE 872.—*L. schach bentel* impaling habits, DELSMAN 299.—*L. b. borealis* winter activities in Massachusetts, TOWNSEND 1398.

Nilanus brubru nesting in Damaraland, photo p. 335, HOESCH 573.

Pachycephala pectoralis neuhausi Lahir Is. nr. New Ireland, STRESEMANN Orn. Monatsb. 1934 p. 24.

Rhagologus gen. n. for type *Pachycephala leucostigma* Salvad., STRESEMAN & PALUDAN Orn. Monatsb. 1934 p. 45.

Tschagra australis emini note p. 121, GRANVIK 456.

FAM. PARIDAE.

Catalogue of American spp. p. 70, HELLMAYR 536.

Ringling experiments with Tits, RÜPPELL 1156.

Hypnosis experiments with Tits, WARNEK 1457.

Aegithalos caudatus alpinus note on race in Asia Minor p. 551, KUMMERLÖWE & NIETHAMMER 698.

Anthoscopus should be merged in *Remiz* p. 692, BATES 57.—*A. minutus* nest-building habits, HOESCH 574.

Bacolophus inornatus zaleptus subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 7.—*B. i. plumescens* subsp. n. New Mexico, GRINNELL Condor 36 p. 251.

Parus major races and their ranges p. 310, YEN 1537; Discussion of the Transbaikalian race p. 167, DOMANIEWSKI 320.—*P. m. newtoni* hatching eggs of *P. c. obscurus* as well as its own, MARPLES 830.—*P. atricapillus*, *P. palustris* notes in Westphalia, GOETHE 441.—*P. atricapillus kleinschmidti* distinctive characters, TEMPERLEY 1366; Addt. notes on nesting habits, TEMPERLEY 1365; Method of boring nest hole, WITHERBY 1495; *P. a. salicarius* range and status in Brandenburg, PEUS 1041.—*P. ater* an Italian invasion in 1933-4, SEVESI 1225.—*P. afer* races in Kenya p. 123, GRANVIK 456.—*P. cyanus apeliotes* subsp. n. Manchuria, MEISE Abh. Mus. Dresden 18 no. 2 p. 31.

Penthestes call of various forms, LUMLEY 788.

Remiz p. pendulinus pairing and nesting notes, STEINFATT 1292; Breeding in Bavaria, WÜST 1522; In Czechoslovakia, MUSÍLEK 954.

FAM. CHAMAEIDAE.

Catalogue of American spp. p. 104, HELLMAYR 536.

FAM. REGULIDAE.

Regulus regulus nesting habits incubation period etc. in Finland, PALMGREN 1003.

FAM. SITTIDAE.

Catalogue of American spp. p. 93, HELLMAYR 536.

Sitta a revision of the Palearctic spp. and races p. 187, *S. europaea rossica* p. 190 Russia, *S. e. domaniewskii* p. 194 Denmark, *S. e. löppenthini* p. 199 Langeland I., Denmark, subsp. n. and notes on all other forms, DUNAJEWSKI Acta Orn. Mus. Polon. 1.—*S. europaea* race near Jehol, N. China discussed p. 15, SEYS & LICENT 1227.—*S. europaea nebulosa* in N.E. Burma p. 352, KINNEAR 662.—*S. tephronota armeniaca* subsp. n. Armenia, WOROBIEV Oiseau 1934 p. 156.—*S. canadensis* nesting habits in California, MICHAEL 891.

FAM. CETHIIDAE.

Catalogue of American spp. p. 100, HELLMAYR 536.

Certhia familiaris note on eastern palearctic races p. 620, BUTURLIN & DEMENTIEV 175.—*C. brachydactyla* and *C. f. macrodactyla* note on the song, WÜST 1523.—*C. brachydactyla siciliacae* subsp. n. Sicily, SCHIEBEL Orn. Monatsb. 1934 p. 86.—*C. b. stresemanni* subsp. n. Asia Minor, KUMMERLÖWE & NIETHAMMER J. Orn. 1934 p. 546.

Climacteris placens stevensi subsp. n. Mt. Misim New Guinea, GREENWAY Proc. N.E. Zool. Cl. 14 p. 2.

Salpornis spilonota salvadori note on races p. 143, GRANVIK 456.

FAM. ZOSTEROPIDAE.

Zosterops virens elgonensis = *Z. v. jacksoni* note p. 134, GRANVIK 456.—*Z. maderaspatana ampotakae* subsp. n. S.W. Madagascar, SALOMONSEN P.Z.S. 1934 p. 222.—*Z. m. analoga* subsp. n. C. Madagascar, SALOMONSEN Novit. zool. Tring 39 p. 208.—*Z. palpebrosa salimali* and other S. India races notes p. 281, WHISTLER 1476.—*Z. p. cacharensis* note p. 239, DE SCHAUENSEE 1190.—*Z. p. erwini* subsp. n. Natuna Is., CHASEN Bull. Raffles Mus. 9 p. 96.—*Z. p. japonica* effects of light on sex maturation and moult, MIYAZAKI 901.—*Z. maxi* nesting and other habits in Java, LUMMEL 790.—*Z. natalis* affinities p. 84, CHASEN 212.—*Z. minor rothschildi*, subsp. n. Dutch New Guinea, STRESEMAN & PALUDAN Orn. Monatsb. 1934 p. 44.—*Z. m. tenuifrons* subsp. n. Morobe distr., New Guinea, GREENWAY Proc. N.E. Zool. Cl. 14 p. 3.

FAM. DICAEDIDAE.

Charitociris maculata natunensis subsp. n. NATUNA Is., CHASEN Bull. Raffles Mus. 9 p. 95.

Dicaeum sulaense zita subsp. n. SARAWAK, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 159.

Melanocharis longicauda chloris subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 45.

Piprisoma agile bungurensis subsp. n. NATUNA Is., CHASEN Bull. Raffles Mus. 9 p. 96.

FAM. NECTARINIDAE.

Aethopyga siparaja natunae subsp. n. NATUNA Is., CHASEN Bull. Raffles Mus. 9 p. 97.—*A. ignicauda exultans* critical taxonomic notes p. 364, KINNEAR 662.—*A. mystacalis perretti* subsp. n. SARAWAK, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 158.

Anthreptes rhodolaema aenea subsp. n. Dutch Borneo, RILEY Proc. Biol. Soc. 47 p. 116.

Chalcomitra senegalensis note on E. African races p. 139, GRANVIK 456.

Chalcoparia singalensis pallida subsp. n. NATUNA Is., CHASEN Bull. Raffles Mus. 9 p. 95.

Cinnyris venustus falkensteini note and col. pl. p. 3, WEBB 1463.—*C. v. falkensteini* and *C. v. niassae* relationship p. 115, LYNES 793.

Cyanomitra olivacea review of races p. 85, *C. o. sclateri* S. Rhodesia, *C. o. alfredi* Namuli Mt. Port. E. Afr. p. 90, *C. o. granti* Pemba and Zanzibar Islands, *C. o. lowei* N. Rhodesia p. 91 subspp. n., VINCENT Ibis 1934.—*C. olivacea pembae* subsp. n. Pemba I. E. Africa, GRANVIK Rev. Zool. Bot. afr. 25 p. 142.

Drepanorhynchus reichenowi note and col. pl. p. 4, WEBB 1463.—*D. alinderi* = *D. reichenowi* p. 136, GRANVIK 456.

Leptocoma minima nesting habits, NAYAR 958.

Nectarinia kilimensis gadowi in N. Angola rediscovered, eggs descr. p. 48, LYNES & SCLATER 794.

Neodrepanis coruscans, *N. hypoxantha* addt. descr. range col. pl., SALOMONSEN 1174.

FAM. MELIPHAGIDAE.

Gliciphila indistincta extension of range and change of habits, ROBERTS 1125.

Meliphaga montana and its allies a rearrangement with diagnoses and ranges, PALUDAN 1007.

Myzomela cardinalis sanctaeacrusis note on races and taxonomy p. 197, DAVIDSON 286.

Philemon citreogularis recorded for New Guinea, STRESEMANN 1320.

Ptiloprora erythropleura dammerani subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 44.

Pycnopygius cinereus dorsalis subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 44.

FAM. MNIOTILTIDAE.

Compsothlypis mexicana type locality p. 419, v. ROSSEM 1142.

Dendroica virens and *Wilsonia pusilla* winter habits in Texas, DAVIS 288.—*D. castanea*, *D. striata* migrations in S.E. U.S.A., BURLEIGH 167.—*D. townsendi* juvenal plumage descr., BROOKS 146.—*D. striata* × *D. castanea* hybrid, BRODKORB 142.

Euthlypis lachrymosa races not recognized p. 474, v. ROSSEM 1142.

Geothlypis trichas typhicola subsp. n. Georgia U.S.A., BURLEIGH Proc. Biol. Soc. 47 p. 21.

Granatellus sallaei griscomi subsp. n. Guatemala, v. ROSSEM Bull. Mus. Comp. Zool. 77 p. 403.

Icteria longicauda is a synonym of the older *Tanagra auricollis* Licht. note on type p. 353, v. ROSSEM 1144.—*I. virens longicauda* social and other habits, KINSEY 664.

Mniotilta varia nesting habits, W. P. SMITH 1250.

Oporornis philadelphia nesting notes in Wisconsin, GROMME 475.

Seiurus novaboracensis races and plumage variation p. 70, TAVERNER & SUTTON 1360.

Vermivora celata orestera nesting notes in Oregon, JEWETT 620.—*V. superciliosa mexicana* note p. 469, v. ROSSEM 1142.

Wilsonia p. pusilla, *Sylvia petasodes* Licht. is a synonym p. 354, v. ROSSEM 1144.

FAM. MOTACILLIDAE.

The Wagtails of Hong Kong, HERKLOTS 551.

Anthus spinoletta petrosus the form in S. Uist p. 56, MEINERTZHAGEN 868.—*A. pallidiventris* does not range to Portuguese Guinea as has been stated, BANNERMAN 46.—*A. leggii* in N. Rhodesia and Angola p. 39, LYNES & SCLATER 794.—*A. brachyurus* note on taxonomy p. 72, LYNES 793.—*A. h. hodgsoni* notes on this and other Indian spp. p. 96, WHISTLER 1476.—*A. correndera* note, RUNNACLES 1154.

Budytes leucocephala Przew. discussion of status p. 611, BUTURLIN & DEMENTIEV 175.

Limnodromus griseus notes on the races in Bt. Columbia, BROOKS 147.

Macronyx croceus fülleborni eggs descr. p. 40, LYNES & SCLATER 794.

Motacilla a. alba large roost in Hanover, GOETHE 442.—*M. a. lugubris* the Dublin roost, MOFFAT 902A.—*M. flava* migrations in S.E. Europe, KUMMERLÖWE & NIETHAMMER 699.—*M. flava taiwana* col. pl. p. 165, HERKLOTS 551.

FAM. ALAUDIDAE.

Alauda a. arvensis palate-markings of nestling photographed, ARMITAGE 29.—*A. a. coelivox* taxonomy and status p. 497, YEN 1537.—*A. a. sushkini* subsp. n. Transbaikalia, DOMANIEWSKI Acta Orn. Mus. Polon. 1 1923 p. 168.

Ammomanes deserti bensoni, A. d. janeti addt. information and relations to environment p. 554, MEINERTZHAGEN 869.

Eremophila alpestris aharonii subsp. n. Syrian Mountains, NEUMANN Anz. orn. Ges. Bay. 2 p. 333.

Eremopteryx nigriceps albifrons range and habits p. 444, BATES 57.—*E. grisea ceylonensis* subsp. n. Ceylon, WHISTLER J. Bombay N.H. Soc. 37 p. 105.

Galerida cristata ankaræ subsp. n. Ankara (i.e. Angora), KUMMERLÖWE & NIETHAMMER J. Orn. 1934 p. 540.

Lulula arborea evening song, LABITTE 709.

Mirafrā africana nigrescens in Belgian Congo p. 39, LYNES & SCLATER 794.—*M. cantillans chadensis*, *M. cordofanica*, *M. rufa nigrificola* range and habits p. 439, BATES 57.—*M. affinis* distr. and characters p. 102, WHISTLER 1476.

Otocoris alpestris lamprochroma subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 4.

FAM. CATAMBLYRHYNCHIDAE.

Catamblyrhynchus diadema pallida subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 330.

FAM. FRINGILLIDAE.

Note on classification and taxonomy of Passerinae p. 716, BATES 57.

The Fringillidae of Russia and Siberia, BUTURLIN & DEMENTIEV 175.

Sandgrains in stomach of some Fringilline birds, INUKAI & IKEDA 608.

Acanthis flavirostris bensonorum subsp. n. S. Uist Hebrides, MEINERTZHAGEN Ibis 1934 p. 55.

Aimophila notes on Mexican species and races, A. h. *asticta* Colima p. 417, A. *rufescens subvespera* Guerrero p. 418 subsp. n., GRISCOM Bull. Mus. comp. Zool. 75.—A. *quinquestriata septentrionalis* p. 485, A. *ruficeps simulans* p. 486 subsp. n. Chihuahua, v. ROSSEM Bull. Mus. comp. Zool. 77.

Amaurospiza concolor grandior E. Nicaragua p. 414, A. c. *australis* W. Panama p. 415 subsp. n., GRISCOM Bull. Mus. comp. Zool. 75.

Amaurospizopsis gen. n. (nr. *Amaurospiza*) for type A. *relictus* sp. n. Guerrero, Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 412 1 pl. 1 text-fig.

Anmodramus savannarum nesting in Saskatchewan, BRADSHAW 132.—A. *bimaculatus* Swains. is identical with A. *savannarum obscurus* Nelson and the Western Grasshopper-Sparrow becomes A. s. *perpallidus* Coues p. 359, v. ROSSEM 1144.

Amphispiza bilineata confinis subsp. n. Chihuahua Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 487.

Auripasser luteus tilemsiensis habits, range p. 713, BATES 57.

Carduelis carduelis bruniventris subsp. n. Sicily, SCHIEBEL Orn. Monatsb. 1934 p. 86.—*C. c. cannabina* analysis of migration in Holland, BOUMA & KOCH 123.—*C. flammea holboellii* in Czechoslovakia, MUSILEK 953.—*C. flavirostris benzonarum* colour of bill, McWILLIAM & DUNCAN 810.—*C. spinus* nesting notes, Denmark, HOLSTEIN 577.

Carpodacus rhodocolpus Cab. and *Fringilla haemorrhoea* Licht. = *C. mexicanus* types examined and taxonomic notes p. 419, v. ROSSEM 1142.

Carpospiza brachydactyla in Transcaucasia p. 155, WOROBIEV 1517.

Chloris chloris established in Uruguay, TREMOLERAS 1400.

Chondestes grammacus Sonoran races p. 485, v. ROSSEM 1142.—*C. g. actitus* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 12.

Coccothraustes coccothraustes races and their variations p. 267, BUTURLIN & DEMENTIEV 175.

Emberiza list of Manchurian species and races p. 22, MEISE 872.—*E. citrinella*, *E. cirilis* removing young from nest, PAILLERETS 999.—*E. aureola* recent westward extension of range and ecological relations and habits, PROMPTOFF 1083.—*E. icterica* recorded in Holland, BROUWER 153; Range and habits, GROTE 482.—*E. schoeniclus pyrrhuloides* nomenclature and taxonomy p. 527, BUTURLIN & DEMENTIEV 175.—*E. cia*, *E. godlewskii* taxonomic question further discussed, HARRISON 513.—*E. c. cia* range in France and Switzerland, JOUARD & DE DRESNAY 633.—*E. c. calandra* breeding and polygamous habits, RYRES 1161.—*E. buchanani huttoni* nomenclature and characters p. 519, BUTURLIN & DEMENTIEV 175.

Fringilla coelebs song, HOFFMANN 575a; Migration routes, v. BOCHMANN 105; Immigration on Holland coast in spring, DAANJE 265; Discussion of European races, *F. c. gengleri* English race is distinct, HARRISON 515.

Fringillaria striolata sahari nesting notes in C. Sahara photos pp. 347, 352, 374, MOLTONI 906.

Guiraca melanocephala, *Fringilla epopoea* Licht. and *F. xanthomaschalis* Wagler are synonyms p. 357, v. ROSSEM 1144.

Hedymeles melanocephalus note on Mexican races p. 410, GRISCOM 470; also p. 478, v. ROSSEM 1142.

Hesperiphona v. vespertina juvenal plumage, MAGEE 815; Migration movements in Eastern U.S.A., MAGEE 816.

Junco h. hyemalis nesting note in New York State, GREVLACH 464; In N.E. Siberia p. 530, BUTURLIN & DEMENTIEV 175.

Leucosticte arctoa review of the races p. 295, *L. a. sushkini* subsp. n. N. Mongolia p. 298, KOZLOVA Ibis 1934.—*L. taphrocotis littoralis* nesting in Washington State, SHAW 1234.

Loxia curvirostra the Asiatic races discussed p. 200, BUTURLIN & DEMENTIEV 175; On the nomenclature of the races in eastern U.S.A. after examination of Gloger & Brehm's types p. 358, v. ROSSEM 1144; Competition with Squirrel and Gt. Spotted Woodpecker in the forests of Russia, FORMOSOV 389.

Melospiza melodia migratory behaviours and general habits, NICE 972.—*M. m. beata* a territory-holding bird in Ohio, NICE 970.

Melospiza r. rubricatum note p. 421, GRISCOM 470.—*Pyrgisoma kieneri* = *M. rubricatum xantusi* Lawr. type examined and nomenclatural changes arising p. 423, v. ROSSEM 1142.

Mycerobas melanozanthus first record for Siam p. 236, DE SCHAUENSEE 1190.

Myospiza humeralis xanthornus note p. 326, LAUBMANN 729.

Oberholseria chlorura zapolia subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 10.

Passer notes on various hybrids, *P. rufipectus* Bp. = *P. domesticus* × *P. hispaniolensis*, MEISE 876.—*P. domesticus* experiments on secondary sex characters, KECK 652; Seasonal movements in Long I., U.S.A., NICHOLS 974; Abundance in Ontario, HARKNESS 507; Economic status in Brazil, PINTO 1051.—*P. d. balearoiberus* subspecific characters p. 718, MUNN 945.—*P. hispaniolensis* note on Sardinian race, FAVERO 374.—*P. hispaniolensis* and other spp. rapidity of increase in Tunisia p. 214, GUIRTCHITCH 488.—*P. italiae schiebeli* subsp. n. Crete, ROKITANSKY Falco 30 p. 7.—*P. montanus montanus*, *P. m. zaisanensis* ranges in Transbaikalia

p. 170, DOMANIEWSKI 320.—*P. m. malaccensis* breeding habits in Java, critical note, SPENNEMANN 1267.—*P. griseus turkanae* subsp. n. Turkana, Kenya, GRANVIK Rev. zool. bot. afr. 25 p. 150.—*P. r. rutilans* note p. 392, YEN 1536.

Passerella iliaca weight variation in winter birds, LINSDALE & SUMNER 745; Migrations at Cape Cod, U.S.A., BROWN 151.—*P. hyperborea* Bp. type and nomenclatural history, will replace *P. insularis* Ridgway p. 360, v. ROSSEM 1144.

Passerina versicolor dickeyae subsp. n. Sonora, Mexico, v. ROSSEM Trans. S. Diego Soc. N.H. 7 p. 369.—*P. lechlancheri grandior* subsp. n. Oaxaca Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 420.

Pheucticus chrysopheplus dilutus subsp. n. Chihuahua Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 379.

Pinicola enucleator discussion of history, nomenclature and synonymy of North American races, GRISCOM 471; Races in Michigan and Ohio, VAN TYNE 1424.

Pipilo maculatus griseipygius p. 482, *P. fuscus perpallidus* p. 483 subsp. n. Chihuahua Mexico, v. ROSSEM Bull. Mus. comp. Zool. 77.—*P. fuscus texanus* subsp. n. Texas, v. ROSSEM Trans. S. Diego Soc. N.H. 7 p. 371.—*Tanagra rutilis* Licht. type locality p. 324, v. ROSSEM 1142.

Polioptila angolensis races reviewed p. 50, LYNES & SCLATER 794.—*P. melanocephala* note on affinities p. 131, LYNES 793.

Poocetes gramineus definitus subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 11.

Pyrrhuloxia sinuata rearrangement of nomenclature and ranges of races based on examination of Bp.'s type p. 355, v. ROSSEM 1144.

Richmondia c. cardinalis living ten years, GARNIER 416.

Serinus mozambicus pseudobarbatus and other spp. in Kenya races and taxonomy p. 179, GRANVIK 456.—*S. m. gertrudis* subsp. n. Usambara, Tanganyika Terr., GROTE Orn. Monatsb. 1934

p. 87.—*S. c. canaria* biochemistry of yellow plumage pigment, BROCKMANN & VÖLKER 141A.

Spermophila torqueola Bp., *S. albitorquus* Sharpe identification of types and taxonomy p. 421, v. ROSSEM 1142.

Spizella p. pusilla migration in Tennessee, LASKEY 722.

Uragus sibiricus races in Manchuria p. 19, MEISE 872.—*U. sibiricus ussuriensis* note col. pl. p. 281, BUTURLIN & DEMENTIEV 175.

Zonotrichia coronata a study of weight-variation, LINSDALE & SUMNER 745, 746.—*Z. l. leucophrys* and *Z. l. gambeli* races discussed p. 78, TAVERNER & SUTTON 1360.—*Z. l. oriantha* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 12.

FAM. COEREBOIDAE.

Conirostrum s. sitticolor note distr. p. 330, CARRIKER 189.

Diglossa sittoides decorata taxonomy and systematic status p. 330, CARRIKER 189.

FAM. TANAGRIDAE.

Buthraupis eximia review of races p. 1, *B. e. zimмери* W. Andes Colombia p. 2, *B. e. cyanocalyptia* Ecuador p. 3 subsp. n., MOORE Amer. Mus. Nov. no. 715.

Conothraupis speculigera rediscovery and descr. of female from western Peru, CARRIKER 188.

Hemispingus atroleus intermedius subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 331.

Lanio atricapillus peruvianus subsp. n. Peru, CARRIKER Proc. Acad. Philad. 86 p. 331.

Malacothraupis ScL. & Salv. = *Creurgops* ScL. p. 332, CARRIKER 189.

Piranga ludoviciana type locality established, DAVIS & STEVENSON 291.—*P. flava hepatica* range and status p. 409, *P. erythrocephala candida* subsp. n. Chihuahua p. 410, GRISCOM Bull. Mus. comp. Zool. 75.—*P. bidentata citrea* subsp. n. Panama, v. ROSSEM Trans. S. Diego Soc. N.H. 7 p. 367.

Tanagra abbas type locality p. 419, v. ROSSEM 1142.

Tephrophilus gen. n. for type *T. wetmorei* sp. n. Ecuador, MOORE Auk 1934 p. 1 col. pl.

FAM. PLOCEIDAE.

Bubalornis albirostris intermedius nesting habits p. 145, GRANVIK 456.

Coccyppigia dufresnii nesting in captivity, ROBINSON 1128.

Coliuspasser axillaris batesi range habits p. 704, BATES 57.

Cryptospiza salvadorii ruwenzorii races discussed p. 167, GRANVIK 456.

Erythrura regia avicult. and other notes col. pl., GOODFELLOW 445.

Estrilda atricapilla graueri at Elgon note p. 173, GRANVIK 456.

Granatina ianthinogastra races discussed p. 176, GRANVIK 456.

Lagonosticta and *Estrilda* generic distinctions p. 708, BATES 57.

Lagonosticta c. cinereovinacea note p. 50, LYNES & SCLATER 794.

Lonchura castaneothorax uropygialis, *L. tristissima hypomelaena* subsp. n. Dutch New Guinea, STRESEMANN & PALUDAN Orn. Monatsb. 1934 p. 43.—*L. nevermanni* p. 101, *L. stygia* p. 102 sp. n. Merauke Dutch New Guinea, STRESEMANN Orn. Monatsb. 1934.

Munia jagori feeding habits and economic status, MANUEL 826.

Otygospiza l. locustella taxonomy distr. races range discussed p. 49, LYNES & SCLATER 794.

Otyphantes reichenowi nigrotemporalis addt. descr. notes p. 154, GRANVIK 456.

Plesiositagra vitellina uluensis variation in eggs and races discussed p. 157, GRANVIK 456.

Ploceus luteolus critical note on races p. 701, BATES 57.—*P. aureoflavus reicherti* subsp. n. Matengo highlands Tang. Terr., MEISE Orn. Monatsb. 1934 p. 16.

Steganopleura guttata aviculture col. pl., SETH-SMITH 1223.

Uraeginthus bengalus katangae subsp. n. Elizabethville, Belgian Congo, VINCENT Bull. B.O.C. 54 p. 174.—*U. granatinus* nesting in Damaraland p. 337 photo, HOESCH 573,

Vidua (including *Hypochaeris* and *Steganura*) general account and revision, descr. range etc., DELACOUR & EDMOND-BLANC 296.

FAM. ICTERIDAE.

Coloured figs. of Icteridae etc., ALLEN 15.

Agelaius thilius petersii nom. n. for *A. t. chrysopterus* Vieill. nec V. 1819, LAUBMANN Verh. Orn. Ges. Bay. 20 p. 331.

Amblyramphus holosericeus nest and eggs, PEREYRA 1026.

Cassidix mexicanus question of iris colour and of two races, BAILEY & McILHENNY 35.—*C. major torreyi* subsp. n. coastal Virginia, HARPER Proc. Acad. Philad. 86 p. 1.

Euphagus carolinus present status in Wisconsin, nesting notes, SCHORGER 1204.—*E. cyanocephalus alaiatus* subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1 p. 9.

Icterus galbula a double nest fig., SUTTON 1334.—*I. pustulatus microstictus* subsp. n. Sonora, Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 408.

Molothrus a. ater list of host species in Ohio, HICKS 553; in Tennessee, CROOK 261; Addt. list of victims, FRIEDMANN 403.—*M. ater californicus* = *M. a. obscurus* note on status 'nr. S. Francisco, GRINNELL 467.—*M. bonariensis* addt. list of hosts victimized, FRIEDMANN 397.

Quiscalus q. quiscula colour of iris, WOOD 1513.

Sturnella magna review of Middle American races p. 403, *S. m. subulata* subsp. n. W. Panama p. 405, GRISCOM Bull. Mus. Comp. Zool. 75.—*S. m. auropectoralis* subsp. n. Jalisco, Mexico, SAUNDERS Auk 1934 p. 42.

Tangavius note on types of *Psarocolius cyanocephalus* and *P. aeneus* Wagler and their identification; *T. aeneus milleri* subsp. n. Arizona, v. ROSSEM Trans. S. Diego Soc. N.H. 7 p. 354.

Zarhynchus wagleri ridgwayi subsp. n. Costa Rica, v. ROSSEM Bull. Mus. comp. Zool. 77 p. 405.

FAM. STURNIDAE.

Pastor roseus at Lundy I., Devon, DAVIS 287; In Italy, VANDONI 1423,

Spodiopsar cineraceus at Spaipan, KISHIDA 665.

Sturnus vulgaris winter roosts and their distr. in Great Britain, MARPLES 829; Roosts in the eastern Midlands of England, ROEBUCK 1134; Habits at roosts nr. Liverpool, HARDY 506; Destructive habits in Devon, STUCLEY 1327; Migrations of Starlings breeding in Silesia, ECKE 347a; Variation in U.S.A., individual and sexual, HICKS 559; Variation in Ohio, U.S.A., HICKS 559; Banding and migration studies in Ohio, THOMAS 1371; Extension of range in N.E. Canada, LEWIS 738; Economics as a destroyer of insects, KLUIJVER 675.

FAM. EULABETIDAE.

Creadon carunculatus general notes p. 142, PORTER 1071.

Onychognathus tenuirostris remarkable breeding habits p. 111, LYNES 793.

Lamprocolius chalybeus hartlaubi races and habits p. 695, BATES 57.—*L. n. bispecularis* victimized by *Clamator glandarius* in Damaraland, HOESCH 575.

Lamprotornis purpureopterus breeding habits in captivity, EZRA 369.

FAM. ORIOLIDAE.

Oriolus varians Andrzejewski = *O. oriolus*, DÉMENTIEFF 301.—*O. auratus*, *O. larvatus* notes, GROMIER 474.—*O. a. auratus* habits in Nigeria, "CHARADRIUS" 209.—*O. monachus rolleti* discussion p. 127, GRANVIK 456.—*O. chinensis diffusus* juv. plumage p. 16, MEISE 872.—*O. mellianus* further information in Siam, H. M. SMITH 1246.

FAM. DICRURIDAE.

Buchanga leucophaea penrisseensis Mt. Penrisen p. 157, *B. l. dulitensis* Mt. Dulit p. 158 Borneo, HARRISON & HARTLEY Bull. B.O.C. 54.

Dicrurus forficatus viridior subsp. n. W. Madagascar, SALOMONSEN P.Z.S. 1934 p. 223.—*D. macrocerus peninsularis* nesting and other habits in Madras Pres., THYAGARAJU 1376.

FAM. PARADISEIDAE.

Paradisea rudolphi ampla subsp. n. Mt. Misim, New Guinea, GREENWAY Proc. N.E. Zool. Cl. 14 p. 1.

Semioptera wallacei halmaherae display observed in captivity, FRIEDMANN 402.

FAM. PTILONORHYNCHIDAE.

Lophorina superba pseudoparotia subsp. n. Sepik-region, New Guinea, STRESEMANN Orn. Monatsb. 42 p. 144.

Loria loria amethystina subsp. n. Sepik-region, New Guinea, STRESEMANN Orn. Monatsb. 42 p. 144.

Parotia carolae chalcothroax Idenburg river region p. 145, *P. c. chrysenia* Sepik-region p. 147 subsp. n. New Guinea, STRESEMANN Orn. Monatsb. 42.—*P. lawesi fuscior* subsp. n. Mt. Misim, New Guinea, GREENWAY Proc. N.E. Zool. Cl. 14 p. 2.

Ptilonorhynchus violaceus field observations in S.E. Queensland, MARSHALL 833; Bower-building habits in Victoria, CHISHOLM 219.

FAM. CORVIDAE.

Catalogue of American spp. p. 1, HELLMAYR 536.

Comparative anatomy of the Corvidae especially *Podoces*, *Nucifraga* and *Pyrhocorax*, SUDILOVSKAIA 1331.

On the phylogeny and relationships of the Jays (Garrulinae), STEGMANN 1281.

Plumage abnormalities in the Crows, TOLDT 1392.

Aphelocoma californica remota subsp. n. Guerrero, Mexico, GRISCOM Bull. Mus. comp. Zool. 75 p. 392.

Corvus c. corax nesting on an island off St. Malo, LAMI 717.—*C. c. sinuatus* food habits and economic status in Oregon, NELSON 960; Note on type and type-loc. p. 353, v. ROSSEM 1144.—*C. corone* no reliable record in Bulgaria, HARRISON 516.—*C. b. brachyrhynchus* food analysis in New York State, HERING 546.—*C. frugilegus* census in W. Gloucestershire, YAPP 1533; Field observations and photos, YEATES 1534; Exhaustion after migration flight, PARQUIN 1010; Structure of brain tracts, WALLENBERG 1452.

Cyanocitta stelleri review of subsp. and their ranges, STEVENSON 1304.—*C. stelleri syncolla* p. 6, *C. s. paralia* p. 7 subsp. n. Oregon, OBERHOLSER Sci. Publ. Cleveland Mus. 4 no. 1.

Cyanopica cyanus stegmanni note on races p. 14, MEISE 872.

Dendrocitta sinensis tuckeri subsp. n. Sarawak, HARRISSON & HARTLEY Bull. B.O.C. 54 p. 156.

Garrulus glandarius migrations and movements, KÜCHLER 692.—*G. g. pekinensis* on an abnormal skull with crossed mandibles, SHAW 1231.

Nucifraga caryocatactes macrorhynchus invasion in Czechoslovakia p. 100, RICHTER 1111.—*N. columbiana* nesting notes in California, DIXON 314; Type locality established, DAVIS & STEVENSON 291.

Pica rustica status and habits in Suffolk, BIRD 99.—*P. p. jankowskii* note p. 13, MEISE 872.

Podoces panderi ilensis col. pl. p. 591, BUTURLIN & DEMENTIEV 175.

[*Psilorhinus*] *Pica morio* note on type, races and their taxonomy p. 414, v. ROSSEM 1142.

Pyrrhocorax pyrrhocorax present status and field obs. in Cornwall, RYVES 1162.

Trypanocorax frugilegus results of ringing in Normandy, REGNIER 1099.

Xanthoura luxuosa revision of races map p. 395, *X. l. maya* Yucatan, *X. l. cozumelae* Cozumel, *X. l. centralis* Guatemala subspp. n., v. ROSSEM Bull. Mus. comp. Zool. 77.

XVI. MAMMALIA

ARRANGED BY

W. L. SCLATER, M.A.

CONTENTS.

| | PAGE |
|--------------------------|------|
| I. TITLES | 1 |
| II. SUBJECT INDEX | 53 |
| III. SYSTEMATIC | 63 |

I.—TITLES.

1.—**Abbie, A. A.** The brain-stem and cerebellum of *Echidna aculeata*. Philos. Trans. London **224B** 1934 pp. 1-74 22 figs.

2.—**Abell, R. G.** Studies of the reaction between methylene blue and living cells and tissues in the transparent moist chamber introduced into the Rabbit's ear. Anat. Rec. Philadelphia **60** 1934 pp. 161-182 2 figs.

3.—**Abramson, D. I.** and others. The coronary blood supply in the Cat. Anat. Rec. Philadelphia **58** 1933 pp. 25-30 4 figs.

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Agacino, E. M. vide Morales-Agacino.

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Alechinsky, G. vide Ledrut.

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15.—Aloisi, M. Studio sistematico sul glicogeno in *Cavia cobaya* durante lo sviluppo. *Arch. ital. Anat. Embriol.* 32 1933 pp. 25-109 32 figs.

16.—Ameghino, F. Primera sinopsis geológico-paleontológica [Dirigida por A. J. Torcelli] in: *Obras Completas y Correspondencia Científica. La Plata* 12 1921 (rec. 1934) pp. 1-767 104 figs.

17.—Amon, R. Säugetierfahrten aus dem Rohrbacher Konglomerat. *Verh. zool.-bot. Ges. Wien* 83 1934 pp. (40-42).

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Anthony, R. *vide* Pontier.

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Zwarenstein, H. *vide* Schrire.

II.—SUBJECT INDEX.

N.B.—The numbers refer to the number of the authors under Titles.

COMPREHENSIVE AND GENERAL.

General Works.—Mammals of Russia, OGNEV, 797; Of French West Africa, LAVAUDEN, 639; Of South West Africa, SHORTRIDGE, 1000; Of California, GRINNELL, 405; Textbook of Vertebrate Anatomy, MARTIN & SCHAUDEK, 719.

Museums and Institutions.—Guide to fossil Mammals in British Museum, HOPWOOD, 502; Methods used in Berlin Zool. Gardens, STEINMETZ, 1035; HECK, 453; Notes on Vienna Zool. Gardens, ANTONIUS, 29, 30, 32; Cat. Tertiary Mammals in Vienna Museum, PIA & SICKENBERG, 845; Cat. Mammals Tientsin Museum, JAKOVLEFF, 541, 542; Type specimens in Carnegie Museum at Pittsburg, DOUTT, 272.

Bibliography.—Work of Kraglievich (pp. 11-16), 612; Russian Literature in 1933, HEPTNER, 463.

Economics; Fur and Fur Farming.—Fur Trade in Manchuria, LOUKASHKIN & JERNAKOV, 685; In China, SOWERBY, 1024; Marten farming, JOPPICH, 555; Identifying furs with microscope, ULLMANN, 1107; Argentine Sheep's wool, SCHULZE, 977.

Economics; Pest-Control.—Elephants, HOBLEY, 495; *Fiber* and *Arvicola*, CHAPPELLIER, 187, 188.

Economics; Whaling and Sealing.—Antarctic Whaling, HJORT, 494; Bladder-nosed Seal, ISACHSEN, 532; Dolphins and fisheries, PINTO, 853.

Economics; Various Species.—*Talpa*, KRYSCHTAL, 622; *Mustela*, HAMILTON, 429; *Cricetus*, WERTH, 1158; Indian Rats, BHIDE, 98; Californian Rabbits, VORHIES & TAYLOR, 1126.

Methods; General—Trapping animals, HOBLEY, 486; SCHEFFER, 952; Trapping Bats, GRIFFIN, 403; Photographing Big Game, MILBURN, 733.

Methods; Museum and Laboratory Technique.—Identifying fur with microscope, ULLMANN, 1107; Use of infrared light, VITERBI & CAROLINI, 1124; Craniostat for skull measurement, TODD & COOKE, 1087; Thermometer for temperature experiments, HERTER, 473; Demonstrating nervous system, CORNWELL, 224; Displaying lymphatics, BALAZSY, 48; Mounting Whale skeletons, FRASER & SMITH, 351; Study of dental caries, NEUWIRTH & BRANDIWEIN, 785; Keeping *Microtus* in captivity, RANSON, 879.

History.—Sixteenth century fauna of Hungary, HANKO, 438; Early history of Canadian Mammals, BLACK, 108; The last Irish Wolf, FISHER, 328; "Set" of ancient Egypt=Giraffe, JENSON, 547; Deer in Ancient Egypt, DAWSON, 252; African Wild Ass, MONOD, 744; Horse in early Chinese annals, YETTS, 1187a.

Naturalization.—Musk Rat in France, CHAPPELLIER, 189; In British Isles, WARWICK, 1141; Grey Squirrel in Australia, BARRETT, 58.

Domestication.—Origin of domestic Swine, GABRIEL, 365.

Conservation.—In Nigeria, SHORTHOUSE, 998; In India, PRATER & others, 872; In Malaysia, PAGE, 818; Elk in Poland, KORSAK, 608; European Bison, DE BEAUX, 74; Newfoundland Seals, TOWNSEND, 1098, 1099.

STRUCTURE.

General.—Hand and foot in Primates, MIDLO, 731; SCHREIBER, 969; Peritoneum in Primates, SCHREIBER, 970; *Macaca*, HARTMAN, 445; *Loris*, HILL, 490; Limbs of *Hylobates* and *Perodictis*, FORSTER, 341, 342; Visceral anatomy *Nycticebus*, HARROWER, 443; Foot, *Elephas*, NEUVILLE, 784; Head, *Sus*, GABRIEL, 365; Hereditary hydrocephalous *Mus*, CLARK, 207.

Growth.—In bone, PONS, 868; Of heart, ROTHE, 913; Postnatal, Cat, HALL & PIERCE, 427; Indian Elephant, HUNDLEY, 519, 520; Wistar Rat, HAIN, 417; Postnatal, *Peromyscus*, SVIHLA, 1066.

External and Tegumentary.—Hair and X-rays, ASTBURY & WOODS, 44; Hair cycles, BUTCHER, 155; Keratinization of epidermic structures, GIROUD & BULLIARD, 379; Hair slope in *Mus*, DAVID, 244; Hair structure in fur-animals, TOLDT, 1094; In *Microtus*, SULC, 1061; In *Castor*, RODE, 897; In *Myocastor*, LICHT, 657; In Bovidae, PANOWA, 823; In *Balaenoptera*, HAUSMAN, 451; Rhinarium, *Bos*, ZIMMERMANN, 1198.

Histology.—Connective tissue, BENSLEY, 86; HERINGA & HOOFT, 465.

Cytology.—Staining reactions of protoplasm, JEFFERS, 545; Living cells and methyl-blue, ABELL, 2; Effects of freezing and drying method, BENSLEY & HOERER, 87; Periodicity of cell division, CARLETON, 172; Amitosis in muscle fibres, STOHR, 1050; Size variation of nucleus, CASPERSSON & HOLMGREN, 178; Nucleus division and growth, HERTWIG, 477, 478; Meitotic index of the thyroid gland, FRIEDMAN & LOEB, 359; Heat effects on mitochondria, MEOLA, 727; Golgi bodies and corpora lutea, MORICARD, 751, 752; Golgi bodies and basophile vacuoles, GUYER & CLAUS, 414; Chromosomes and cancer, HUSKINS & HEARNE, 522; Chromosomes of Cat, MATTHEY, 724; WINIWARTER, 1172; In *Apodemus*, TATEISHI, 1073; In *Macropus*, MATTHEY, 723.

Dentition and Tooth Structure.—Trituberculy and dental evolution, GREGORY, 401; Molars, FRECHKOP, 352; Foetal molars, STUDICKA, 1058; Phylogeny of Rodent molars, FRIANT, 357; Structure of dentine, BARGMANN, 56; Dentition, *Macaca*, SPIEGEL, 1027; Argentine dogs, RUSCONI, 923; Molars of *Canis*, WOOD, 1179; *Ursus*, INUKAI & MUKASA, 529; *Sciurus*, NAUMOW, 774; Siphneidae, FRIANT, 355; *Agouti*, RUSCONI, 929; Prociavidae, HAHN, 416; Evolution of incisors, *Hippopotamus*, v. KOENIGSWALD, 594; Molars in *Rhinoceros*, JACOBSSHAGEN, 537; Dentition, *Equus*, PIRALÄ, 855; *Orycteropus*, ANTHONY, 25, 25a; ADLOFF, 5; VIRCHOW, 1121.

Nervous System; Brain.—Motor cortex, HUBER, 513; Hypophysis, HILLER, 492; Neopallium, ANTHONY & BOTAR, 26; DART, 241; Diencephalon,

HOWE, 506; Cerebellum, ZIEHEN, 1195; Posterior commissure, PINTUS, 854; Olive, MUSKENS, 767; Bulbus olfactorius, KREINER, 616; Otic ganglia, PINES & NAROWTSCHATOWA, 852; Microglia and cytogenesis, JUBA, 558; Nucleus ruber, YAMAGISHI, 1186.

Nervous System; Brain of Special Forms.—*Macacus*, CROUCH, 230; WALKER, 1132; Cat without corpus callosum, KISSELEWA, 583; *Balaenoptera*, WILSON, 1166; *Echidna*, ABBIE, 1; Aquatic Mammals, JELGERSMA, 546.

Nervous System; Brain-casts of Fossil Forms.—SHELLSHEAR & SMITH, 996; KLINGHARDT, 590.

Nervous System; Spinal Cord and Nerves.—Optic nerve and tract, KLAPKOWSKI, 585; Facial and Glossopharyngeal nerves, KUROSU, 630; Oculo-motor nerve in Bats, LUNA, 689, 690; Spinal nerves, Ungulata, HOWELL & STRAUS, 507; KISS & ZUCKERMAN, 582; Paracarotid ganglion, WATZKA, 1148; Phrenic nerve, BERTELLI, 96; Accessory peroneal nerve, WINCKLER, 1170; Sympathetic innervating glands, BOEKE, 114; Sympathetic system, *Macaca*, ZUCKERMAN & BURR, 1205; Sympathetic of Carnivora, JAYLE, 544; Brachial plexus, MILLER, 736; Spinal nerve roots, AGDUHR, 6; Cytology, ganglion cells, FOERSTER & GAGEL, 335; Nerves and argentaffine cells of intestine, SIMARD, 1006; Sheath of Schwan, PLENK, 857; Neurons of spinal ganglia, LEVI & SACERDOTE, 653; Innervation of dentine, BERKELBACH v. D. S., 94; Of extrinsic ocular muscle, TARKHAN, 1069; Of the oesophagus, HARTING, 444; Of stomach wall, OKAMURA, 801; Of the intestine, KOFMANN, 595, 596; Of heart muscle, ARPINO, 39, 40; Of fat organ, HAUSBERGER, 450; Of pigment cells, SASYBIN, 946; Of the rete ovarii, WALLERT, 1133; Nerve terminations, male genital organs, OTTOLENGHI, 814; In muscle, PALLOT, 822.

Sense Organs.—Bowman's olfactory glands, SLOTWINSKI, 1015; Nasal organ, SIRENIA, GENSCHOW, 372; Eye in *Sorex*, ROCHON-DUVIGNEAUD, 895; Retina, AKKERINGA, 9; Geniculate body, BRODY, 141; CLARK & PENMAN, 213; Ear in Bats, STANEK, 1030;

Cochlea, TURKEWITSCH, 1103, 1104; LEBEDKIN, 645; Ganglion cells of labyrinth, BURLET, 148; Sense hairs, *Orycteropus*, KRUMBIEGEL, 620.

Myology.—*Camelus*, SJOMUSCHKIN, 1012; Facial muscles, Insectivora, LIGHTOLLER, 661; Of Pinnipedia and Cetacea, HUBER, 512; Neck muscles Carnivora, JAZUTA 544a; Tensor tympani, MALAN, 709, 710; Retractor bulbi, KEY-ÅBERG, 573; WINCKLER, 1169; Masseur, HOFF, 501; Dorsal muscles, domestic animals, STIMPEL, 1039; Panniculus carnosus, ENDERS, 308 Thigh muscle, homologues, HAINES, 420; Diaphragm, *Dasypus*, LOCCHI, 669; Glutaeobiceps, ZIEGLER, 1194; Presemimembranosus, HILL, 487; Coronary artery, ABRAMSON & others, 3; Intercalated discs in heart muscle ZSCHIESCHE & STILWELL, 1203; Muscle of pulmonary arteries, BAUDRIMONT & MAUGIER-MERLET, 68.

Osteology; General.—Ossification problems, GUERRANT & DUTCHER, 412; KISTLER, 584; MENG, 726; Bone and marrow, relative volumes, FAIRMAN & CORNER, 319; True and accessory ossicles, NAUCK, 771; Pronation of forearm, LAUGIER, 637; Effects of lathyrism in Rats, ROBINSON & BAST, 894.

Osteology; Special Forms.—*Eudermas* HALL, 421; *Felis* "dom.", ZIMMERMANN, 1200; *Ondatra* LATIMER, 636; Procaviidae, HAHN, 416; *Equus hemippus*, *E. hemionus*, BOURDELLE, 127, 128; *Trichechus* (*Manatus*), HATT, 447.

Osteology; Skull.—Insectivora, DRASEHE, 274; *Procavia*, BRAUER, 136; *Rhinoceros*, ZEUNER, 1193; *Equus*, VETULANI & SCHULZE, 1118; Craniometry; Domestic animals, KOHÁNYI-SZABELLY, 597; Carnivora, DSCHAWACHSCHIOILI, 275; Skull growth, *Sus barbatus*, TODD & COOKE, 1087; Cranial foramina, Primates, BOYD, 133; Parietal foramen, EDINGER, 291; Pterion bone, Felidae, ZAHARESCO, 1189; Frontal processes, *Equus*, CHUBB, 202; Orbitotemporal region, MULLER, 760; Mandible, *Equus*, CECCHINI, 185; Mandibular articulation, Ungulata, FORSTER, 343.

Osteology; Vertebrae and other Bones.—Synostosis of atlas, BYSTROW, 157; Occipito-atlanto-axial joint, CAVE,

183; Vertebral epiphyses, CAVE, 184; Vertebral prominences, BRAGI, 134; Epiphyseal unions, DAWSON, 250, 251; Ribs and sternum, MOSKOFF, 758; Rotation of pelvis, KIESSELBACH, 575; Ossification of limb-bones, SCHAEFFER, 948; Forelimb, *Megaceros*, JACOBSEN, 538; Hypotrochanteric fossa, HRDLÍČKA, 511; Nutrient foramina of long bones, PAYTON, 831; Sesamoids of knee-joint, ZIMMERMANN, 1197; Os priapi, RUTH, 933.

Osteology and Dentition of Extinct Forms.—*Australopithecus*, DART, 240; Madagascar Lemuroids, LAMBERTON, 633; *Pronycticebus*, CLARK, 212; *Diictis* and *Hyaenodon*, KLINGHARDT, 590; *Ursus*, MAIER, 708; RODE, 896; *Pseudailurus*, STOCK, 1044; *Amblyrhiza*, SCHREUDER, 971; *Neohouos*, RUSCONI, 924; *Issiodoromys*, FRIANT, 358; Proboscidea, BARBOUR, 49; PONTIER & ANTHONY, 870; GREGORY, 400; Notoungulata, PATTERSON, 827; *Pseudotopotherium*, PATTERSON, 826; *Homalodotherium*, PATTERSON, 828; *Trachitherus*, PATTERSON, 829; *Titanoides*, PATTERSON, 830; Chalicotheres, COLBERT, 219; Miocene Rhinocerotidae FORSTER-COOPER, 344; Hyrachyidae, WOOD, 1180; *Listriodon*, DEHM, 259; *Brachyodus*, GEAIS, 371; Agriotheriids, PETERSON, 837; Extinct Cetacea, KELLOGG, 568, 569; PACKARD & KELLOGG, 815; RABININ, 886; *Myiodon*, KRAGLIEVICH, 613; *Thyosmilus*, RIGGS, 890.

Alimentary System.—Buccal epithelium, MANNES, 713; Stomach variation with different foods, MANGOLD, 712; Fat absorption of small intestine, DANBY, 237; RÖHLICH, 904; Intestine of flesh- and plant-eaters, KRYŃSKI, 621; Ileocecal region, HUNTER, 521; Folds of the colon, VAU, 1114, 1115; Lieberkuhn's crypts, KARASEK, 562; Liver, MEYER, 729; Living liver cells, HIRT, 493; Cytology, liver, JAY, 543; BERG, 92; NOEL & PALLOT, 795; Fats of liver, RICE & JACKSON, 887; Extra hepatic ducts, ZIMMERMANN, 1196; Interhepatic bile ducts, OTTAVIANI, 813; Pancreas, ERSPAMER, 313.

Circulatory Organs.—Pericardial patency, Orang, DE GRIS, 256; Nerve growth and arterial control, CLARK & others, 206; Vena cava, FRANKLIN, 348; Liver veins, *Hydrochoerus*,

STARCK, 1031; Smaller arteries, SÖELKUNOW, 947; Arterio-venous anastomoses, CLARK, 205; Blood capillaries, PFUHL, 842; Cerebral arteries, Primates, WATTS, 1147; Circulation in iris, FEDOLFI, 320; Capillaries of tongue, ALLARA, 13; Arteries, mammary gland, LOCCHI & ERHART, 670; Circulation in liver, CLARA, 204; In foot of *Equus*, KRUGER, 619; Foot of Ungulates, LECHNER, 646; In penis, BARGMANN, 57; Lymphatic of throat, ZIMMERMANN, 1199; Of omentum, SIMER, 1007, 1008; Of walls of blood-vessels, OSCHKADOROW, 810.

Blood.—Cytology of blood, CASEY & others, 177; Serology and classification, RODE, 898, 899, 900; Blood in capillaries, LOESCHEKE, 673; Blood elements of Cow × Yak, KOSCHARIN & SSAMOCHWALOWA, 610; Of Rodents, LOEWENTHAL, 675; Erythrocytes, PONDER, 866, 867; SCHWEIZER, 986; Leucocytes, HETT, 480; LOEWENTHAL, 674.

Endocrine and other Glands.—Thyroid, DYE & KINDER, 284; Parathyroid, BENAZZI, 83; ROSOF, 912; Adrenals, BOURNE, 132; Suprarenal cortex, WHITEHEAD, 1163; Mammary, DABLOW, 234; Lateral glands, *Cricetus* VRTIŠ, 1130, 1131; In *Arvicola*, VRTIŠ, 1129; Sternal gland, *Myrmecobius*, FORD, 336; Neck gland, *Notomys*, BOUENE, 131; Sebaceous glands of ext. ear, ROLAND, 906; Salivary glands, M. E. THOMPSON, 1083; Harderian gland, DUTHIE, 283; Nictitating eyelid and glands, LOEWENTHAL, 676; Organ of Jacobson, Rodents, LAUTENSCHLAGER, 638; Thyroglossal duct, PAL, 819.

Respiratory System and Voice.—Regeneration of lungs, HILBER, 486; Lungs, *Phocaena*, LACOSTE & BAUDRIMONT, 632; Ciliated cells of bronchial epithelium, POLICARD, 864; Larynx and trachea, *Equus*, LEPPERT, 652.

Excretory System.—Kidney Primates, STRAUS, 1054; Coalesced kidneys in Rabbit, LUCAS, 687; Bladder, *Canis*, GRÄNING, 388; Bladder epithelium, FLEROFF, 330; SILVESTRI, 1005.

Organs of Reproduction.—In *Sus*, NEUVILLE, 783; Female organs, *Erinaceus*, DEANESLEY, 254; Descent of testes, *Didelphys*, KIESSELBACH, 574; Penis of Ungulata, NAGLIERI, 769;

Spermatogenesis, GROOME, 408; Membrana granulosa of ovary, ESPINASSE, 314; Corpora lutea, KLEIN, 586; WARBRITTON, 1138; Polyovular follicles, DEDERER, 255; Epididymis, v. ECK, 287; Regeneration of uterus, SELYE & MCKEOWN, 988; NICOL, 791; Uterine mucous membrane, KLEIN, 587; Uterine bleeding, *Glossophaga*, HAMLETT, 434.

PHYSIOLOGY.

Nervous System and Sense Organs.—Olive, MUSKENS, 767; Motor cortex, HUBER, 513; Nerve regeneration, LAWRENTJEW, 642; Iris and sight, v. STUDNITZ, 1059.

Epidermal Organs.—Pigmentation in Rabbits, DANNEEL, 238; Hair direction in *Mus*, DAVID, 244; Hair colour and visual stimulus, SUMNER, 1062.

Muscles and Locomotion.—MAGNE DE LA C., 707; Contractibility, VOSS, 1128; Retractor bulbi, KEY-ÅBERG, 573.

Nutrition and Digestion.—General, LENKEIT, 649; Milk diet effects, HOLZ, 499; Fasting metabolism, FRIEDMANN, 360; Dietary depigmentation, GORTER, 384; Lieberkuhn's crypts, KARASEK, 562; Fat absorption, DANBY, 237; RÖHLICH, 904; Liver problems, CLARA, 204; ALVISI, 15; Pancreas, LEDRUT & ALECHINSKY, 647.

Excretion.—General, GERSH & STEGLITZ, 375; Metabolism and excretion, TERROINE ET MOUROT, 1079; Function of the renal tubule lipoids, MODEL & TRAVELL, 742.

Temperature Regulation and Respiration.—In Bats, EISENTRAUT, 300; *Erinaceus*, HERTER, 475; Blood formation in adipose tissue, JORDAN, 556; Serum tests in Lemurs, ZUCKERMAN, 1204; Blood capillaries, PFUHL, 842; Blood group incompatibility, KEELER & CASTLE, 566; Erythrocytes, PONDER, 866; Lymph glands, FUNAKA & AOKI, 364.

Respiration.—Regenerated lungs, HILBER, 485; Respiration in Whales, KROGH, 617; Whales and caisson disease, CAMPBELL, 171; GRAY, 393.

Endocrine Organs.—Thyroid and skull growth, TODD & WHARTON, 1088; Function of Organ of Jacobson, LAUTENSCHLAGER, 638.

Reproduction.—Control of fertilization in Rabbit, HAMMOND, 436; In *Citellus*, MOORE & others, 748; Mating and reproduction in Swine, RODOLFO, 902, 903; In Sheep, R. T. CLARK, 210; GRANT, 389; Fertility and pregnancy in Ferret, ALLANSON, 11; HAMMOND & WALTON, 437; Seasonal variation, male organs in *Erinaceus*, ALLANSON, 10; Descent of testes in *Sus*, DAY, 253; Diagnosis of pregnancy, BELLERBY, 81; ANKLESARIA, 21; Equine pregnancy, MILLER, 737; Menstrual cycle, Primates, ZUCKERMAN & FULTON, 1206; *Erinaceus*, DEANESLEY, 254; ALLANSON & DEANESLEY, 12; *Felis*, GROS, 409; *Citellus*, FOSTER, 346; JOHNSON & others, 551; *Sciurus*, LOBATSCHIEW, 668; Artificial ovulation, GREULICH, 402; Corpora lutea, KLEIN, 585; NICOL, 790; Maturation of ova, MATTERS & MACKAY, 722; Regeneration of Uterus, SELYE & McKEOWN, 988; Uterine bleeding *Glossophaga*, HAMLETT, 434; Permeability of placenta, RODOLFO, 901.

Lactation.—GARDNER, 367; NELSON, 781; SELYE & McKEOWN, 987; Experimental lactation, DONAHUE, 271; Suckling and pregnancy, HAIN, 418.

Hibernation.—UIBERALL, 1106; COURRIER & GROS, 226; Anabiosis in Bats, KALABUCHOV, 561.

Growth and Weight.—Biometrics of head-body proportions, WERMEL, 1157.

Experimental Physiology; Transplantations and Grafts.—VOSS, 1127; WATERMAN, 1143; BARTSCHI & PONSE, 63; GOODMAN, 381.

Experimental Physiology; Effects of Light and Temperature.—HILL & PARKES, 489; SMELSER, 1016; Lethal body temperature, YAGI & SHIMOIZUMI, 1185.

Experimental Physiology; Effects of Injections.—Ergosterin, AGDUHR, 7; Oestrin, ESPINASSE, 315; Protan, PADOUTCHEVA & others, 817; Uranium,

MODELL & TRAVELL, 742; Calf-lens extract, IBSEN & BUSHNELL, 524; Ultra-violet light, DAVIS, 247; SAMOCHVALONA, 942; Irradiation, MARSHALL & BOWDEN, 718; DOBROVOLSKAIA-ZAVADSKAIA, 267; X-rays, GENTHER, 373.

Experimental Physiology; Endocrines and Hormones.—Hypophysis, DESCLIN, 263; EVANS & others, 318; GREGORY & GOSS, 398; GUYENOT, 413; KENNEDY, 571; RUBINSTEIN, 915; RUBINSTEIN & KOLODNER, 916; THOMPSON & CUSHING, 1082; WISLOCKI & GOODMAN, 1174; WOLFE & others, 1176; Thyroid, WEICHERT & BOYD, 1151; Adrenals, EMERY & ATWELL, 305; EMERY & WINTER, 306; ZALESKY, 1190; Male sex hormones, KABAK, 560; KUDRJASHOV & IVANOVA, 625; PADOUTCHEVA, 816; SKOWRON, 1014; Gonodotropic hormones, EVANS & SIMPSON, 317; Oestrogenic hormones, CATCHPOLE & COLE, 182; ZONDEK, 1202; Corpora lutea, WATRIN & BRABANT, 1145; Ovarian hormones, BROUHA, 143; Pregnancy urine, SEVERINGHAUS, 991; SMITH & LEONARD, 1018; WOLFE & others, 1177; KABAK, 560; Endocrines and mammary gland, WEICHERT & others, 1152.

Experimental Physiology; Castration.—ROWLANDS, 914; SCHRIRE & ZWARENSTEIN, 972.

Miscellaneous Experimental Problems.—Ultra centrifuging and Golgi apparatus, BEAMS & KING, 70; Vitamin C and teeth, FISH & HARRIS, 327; Artificial ovulation in hibernating Bats, HERLANT, 468; Effect of synthetic atmospheres, HERSHEY, 470, 471; Fertilization in vitro, KRASSOOSKAIA & DIOMIDOWA, 615; Hysterectomy, MURPHY, 765; Vital staining, NAWZATSKY, 775; Muscle and trypan blue, PFUHL, 841; Rejuvenation of Dogs, MARCHI, 714; Starvation and nucleic acid, ROBERTSON & others, 892; Blood serum and parturition, JOSLAND, 557; Unilateral sterilization effects, CRABB, 229; Effects of pregnancy on ovary, SELYE & others, 989; Artificial pseudopregnancy, WEICHERT & BOYD, 1150.

Biochemistry.—Liver cells, BERG, 92; MEYER, 729; Glycogen in ovarian follicles, RAO, 881; Milk of Merino Ewe, PEIRCE, 834; Whale blubber and milk,

SCHMIDT-NIELSEN & FLOOD, 961; & FROG, 962; Ferro-cyanide in kidney, GERSH & STEGLITZ, 375; "Heavy" water, ERLÉNMEYER & GAERTNER, 312; Oestrogenic hormone, ZONDEK, 1202.

DEVELOPMENT.

Early Stages.—*Glossophaga*. HAMLETT, 433; Ferret, HAMILTON, 432; Sheep, CLARK, 210; Sciurids, SCHOOLEY, 966; *Cavia*, MACLAREN & BRYCE, 703; MACDONALD & LONG, 701; Gill arches and thymus, GRÉGOIRE, 397; Fate of post-branchial body, PLANCHER, 856.

Nervous System and Sense Organs.—Neopallium, ANTHONY & GRZYBOWSKI, 27; Corpus mammillare, TELLO, 1077; Hypophysis, GILBERT, 377; Motor nuclei, SHANER, 993; Neurofibrillae, WINDLE, 1171; Nasal organ, Sirenia, GENSCHOW, 372; Cornea, GROSSER, 410; Cochlea, McROBERTS, 704; Labyrinth, ANSON, 24; LEBEDKIN, 645.

External and Epidermal Structures.—Scales and hairs, MIRANDA-RIBEIRO, 739; Glands of muzzle of Ox, MONTI, 746, 747; Frontal sinus, *Equus*, SÖRENSEN, 1022; External ear, ROLAND, 905; Perineal region, POLITZER, 865.

Bone, Teeth and Muscle.—Histogenesis of cartilage, RONDININI, 908, 909; Vertebrate skull, WEINBERG, 1153; Skull of *Sus*, NEUKOMM, 782; Fore-limb, *Cavia*, HARMAN & SAFFRY, 441; Teeth, NAUCK, 772; Enamel, SANTONÉ, 945; Dentition, *Equus*, ADLOFF, 4.

Reproductive Organs.—Testis, GRÜNWALD, 411; Spermatogenesis, STSCHEGOLEFF & TEPLAKOWA, 1057; Oogenesis, Sheep, STIEVE, 1038; Vagina, *Sus*, BAXTER, 69; KEMPERMANN, 570; Uterus, LANGE, 634; Variation in gestation period, ROSAHN & others, 911.

Organs of Circulation.—Arteries, *Sus*, LLORCA, 637.

Alimentary System.—Prenatal growth of gut, *Felis*, LATIMER, 635; Histogenesis bloodcells in liver, DAMAS, 236.

Excretory Organs.—Papillary ducts of kidney, MIJSBERG, 732.

Endocrines.—Thymus, DUSTIN, 281; Thyroid and parathyroid, CLARA, 203.

Experimental and Miscellaneous.—In artificial media, WATERMAN, 1144; Ova in vitro, PINCUS & ENZMANN, 851; Development in tissue culture, NICHOLAS & RUDNICK, 788; Transplantation and regeneration, NICHOLAS, 787; Omental grafts, WATERMAN, 1142; Position of foetus in *Ovis*, CURSON & QUINLAN, 233; Foetal reflexes, WINDLE, 1172; Kinetogenesis, WERMEL, 1156.

ETHOLOGY.

Regional Field-notes.—S.W. Africa, SHORTRIDGE, 1000; Guatemala, GOODWIN, 383; Arizona, DOUTT, 273; Nevada, BURT, 152.

Habits of Special Forms.—*Pteropus*, McCANN, 697; *Alouatta*, CARPENTER, 174; *Dirias*, DUNN, 279; *Erinaceus*, HERTER, 474; *Mustela*, HAMILTON, 429; *Lutra*, UTZON, 1109; *Marmota*, HAMILTON, 430; *Eutamias*, DAVIS, 249; *Muscardinus*, VÁSÁRHELYI, 1112; *Dendromys*, SHAW, 994; *Zapus*, SHEDDEN, 995; *Cervus virginianus*, TOWNSEND & SMITH, 1101; *Alces*, MURIE, 764; *Echidna*, COLEMAN, 220; *Platypus*, EADIE, 285.

Psychology.—Experimental, KOLOS-VÁRY, 600; Facial expression, SCHNEIDER, 964; Language and talk, BIERENS DE H., 99; Monkeys, BIERENS DE H. & MEYKNECHT, 100; SCHMID, 959; SCHWARZ, 978; TELLIER, 1076; VERLAINE & GALLIS, 1117; *Alouatta*, CARPENTER, 174; *Erinaceus*, HERTER, 476; LISSMANN, 664; *Eumatopias*, SPINDLER & BLUHM, 1028; *Sciurus*, LOCHER, 671; *Mus*, BUYTENDYK, 156; BROCK, 140.

Food Habits.—Food utilization, H. P. MORRIS & others, 753; *Megaderma*, McCANN, 698; *Talpa*, KRYSCHTAL, 622; *Canis latrans*, SPERRY, 1026; *Phoca*, JOHANSEN, 550; *Sciurus*, LITTLE, 636; *Phascogale*, SUTTON, 1065.

Breeding, Courting and Maternal Habits.—*Erinaceus*, ALLANSON, 10; Mustelids, MALLNER, 711; SCHMIDT, 960; *Tamias*, SCHOOLEY, 965; Mating *Sus*, RODOLFO, 903; *Phascogale*, FLEAY, 329; Sex behaviour, Rat, HAIN, 419; Litter size, Mouse, WATT, 1146.

Other Habits.—Migration, Bats, EISENTRAUT, 298, 299; v. FINCK & SCHAEFER, 322; Deer in Rocky Mts., RUSSELL, 930; Burrowing habits, *Otospermophilus*, EDGE, 289; Locomotion, MAGNE DELA C., 707; BOURDELLE, 129; Facial expression of emotions, SCHNEIDER, 934; Breathing habits, Whales, GRAY, 392; Social habits, Javanese Mammals, OLIVIER, 803.

Ecology and Effects of Environment.—Relations of Squirrel and Crossbill, FORMOZOV, 337; *Microtus* and *Otus*, TINBERGEN, 1088; Effect of darkness on breeding, HILL & PARKES, 489; Want of water and fur of Seals, TOLDT, 1095; Temperature and colour-change, MARTINO, 720; Climate and coloration in New Mexico, BENSON, 91; Ecology of Arizona Rabbits, VORHIES & TAYLOR, 1126; Cavernicolous Mammals, BAILEY, 47; Population fluctuations, ELTON, 303; MIDDLETON, 730; SEWERTZOFF, 992; Methods of estimating population numbers, JURGENSON, 559; RAJEWSKI, 878; Mass destruction of Rodents, ZELÍZKO, 1191.

Hibernation.—Physiological study, UBERALL, 1106; Bats, EISENTRAUT, 300; *Erinaceus*, HERTER, 475.

Polinization of Flowers.—General, PORSCH, 871; Bats, v. D. PIJL, 849.

Pathology.—In London Zool. Gardens, HAMERTON, 428; Bones, ARNDT, 38; Actinomycosis, HOLZ, 498; Scurvy, FISH & HARRIS, 327; Tooth injury, SCHOUR, 967; Anaemia, LAW & KENNEDY, 640; Lathyrism, ROBINSON & BAST, 894; Dental caries, NEUWIRTH & BRANDIWEIN, 785; Hydrocephalus, MUS, CLARK, 207; Toxoplasma, *Microtus*, FINDLAY & MIDDLETON, 323; *Citellus* and plague, VOLCANIEZKII & FURSSAJEV, 1125; Diseases of Elephants, HOLZ, 500.

Palaeopathology.—CABRERA, 162; KUBACKA, 623, 624; PALES, 820, 821; STOVALL & JOHNSTON, 1053.

Parasites.—BAER & BROCHER, 46; ELTON, 304.

VARIATION AND AETIOLOGY.

Teratology; General Problems.—Classification of types, WRIGHT & WAGNER, 1184; Abnormality and

genes, BONNAVIE, 118; Genetics of abnormalities, WRIGHT, 1183; Experimental otocephaly, WOLFF, 1178.

Descriptions of Special Cases.—BAUDOUIN, 67; CHOU, 201; COUCH, 225; CURSON, 232; EKMAN & SUOMALAINEN, 301; HARMAN, 440; HUGHES & HART, 518; LUCAS, 687; MURIE, 762; RUBLI, 917; RŮŽIČKA, 934; TORREY, 1097; VAU, 1116; v. D. WALT & BOOM, 1135.

Sex Problems (see also under Physiology, p. 56).—Sex determination, SCHRÖDER, 973; Secondary sexual characters, IWANOWA, 535; Corpora lutea and pregnancies, NICOL, 790.

Hybrids.—*Macacus*, SCHWARZ, 985; *Taurotragus*, BOULINEAU, 126; Equine hybrids in Vienna Zoo, ANTONIUS, 33.

Intersex.—In *Sus*, COHRS, 216.

Regeneration.—In mouse embryos, MITZKEWITSCH, 741.

Variation and Mutation.—In *Thomomys*, STORER & GREGORY, 1051; In *Cricetus*, KIRIKOW, 576; In erythrocytes with age, SSAMOKHVALOVA, 1029; Dwarf mutation, Rabbit, GREENE & others, 396.

Genetics; General Problems.—General, KOLOSVARY, 601; Sex linkage, DARLINGTON, 239; Linkage in tumors, BITTNER, 103; Reverse mutations, MARCHLEWSKI, 715; Racial and specific characters, DOBZHANSKY, 268; Size of genes, GREEN, 394; Food utilization, H. P. MORRIS & others, 753; Blood-groups, KEELER & CASTLE, 566; SCHERMER, 953; Pregnancy and antibodies, KEELER & CASTLE, 567; Lethal characters, REED, 883.

Genetics; Work on Mice and Rats.—BARROWS, 60; BONNEVIE, 118; CLARK, 208, 209; DAVID, 245; DAVIS, 247; DOBROVOLSKAIA-ZAVADSKAIA, 267; DUNN, 277, 278; FORTUYN, 347; KOBOZIEFF, 593; KOLLER & DARLINGTON, 599; LOEFFLER, 672; SNELL & others, 1019.

Genetics; Other than Mus.—CASTLE, 179, 180, 181; GREENE & others, 396; HUBSTIS & BARTO, 515; HUGHES & HART, 518; IBSEN & BUSHNELL, 523;

ILIN, 527; IWANOWA, 534; LUSH, 691; LUSH & others, 692; MARCQ, 716; PICTET & FERRERO, 847; ROSAHN & others, 911; TEODORCANU, 1078; WRIGHT, 1183.

Phylogeny; General.—Of teeth, PATTE, 825; Trituberculy, GREGORY, 401; Vertebrate skull, WEINBERG, 1153.

Phylogeny; Man and Primates.—BLACK, 105, 106; CLARK, 211; FRIANT, 356; GREGORY, 399; TER HAAR, 415; LEAKEY, 644; SUSCHKIN, 1063.

Phylogeny; Other Groups.—*Ursus*, MOHL, 759; Rodent molars, FRIANT, 357; Proboscidea p. 320, HAHN, 416; OSBORN, 808, 809; Titanotheres, HERSH, 469; Hyrachyidae, WOOD, 1180; Equines, SKORKOWSKI, 1013; Ruminants, BOAS, 111; *Orycteropus*, ANTHONY, 25, 25a; *Phalanger*, SCHWARZ, 982.

Taxonomy and Classification.—South American Canids, OSGOOD, 811; South American extinct Ungulates, SIMPSON, 1010; Ruminants, BOAS, 111; Classification and serology, RODE, 898; Of the types of twinning, HAMLETT & WISLOCKI, 435.

Nomenclature.—Etymology of "Jaguar" and "Onca" KRUG, 618; Burmese vernacular names, TIN, 1085; Various nomenclatural notes and emendations, CHAWORTH-MUSTERS, 197, 198, 199, 200; SCHWARZ, 980.

Palaeontology (see also under Faunas, p. 62).—BARBOUR, 50; BARBOUR & SCHULTZ, 52; HAHN, 416; HOPWOOD, 502; JACOBSHAGEN, 538; KLINGHARDT, 590; PATTERSON, 826, 827, 828; SCHAUB, 950; SIMPSON, 1011.

GEOGRAPHY AND FAUNAS.

The Wegener hypothesis and Tertiary times, SICKENBERG, 1002; Effects of glacial periods on distribution, KORMOS, 606; Burrowing Insectivora and the Koppen theory of climate, RIETH, 889; Zoogeographical problems in Siberia, FLEROW, 332; SALESSKI, 940; Origin of Argentine fauna, CABRERA, 160; Zoogeography of Pinnepedia, v. BOETTCHER, 113.

PALAEARCTIC REGION.

British Isles.—WARWICK, 1141; Hertfordshire, FOSTER, 345; Norfolk, ELLIS, 302; Warwickshire, WARD, 1139; Shropshire, FORREST, 340; Cheshire, COWARD, 228; Lancashire, COWARD, 228; HARDY, 439; Yorkshire, BRAMLEY, 135; CLARKE, 214; Durham, COURTENAY, 227; Northumberland, BOLAM, 117; Pladda I. off Arran, MCWILLIAM, 705; North Uist, BEVERIDGE, 97.

Sweden.—LÖNNBERG, 680.

Germany.—FRITSCH, 361; WERTH, 1158, 1159; Thuringia, FRITSCH, 362; Saxony, KRAMER, 614; SCHLEGEL, 958; ZIMMERMANN, 1201; Mecklenburg, KUHKE, 626.

Central Europe.—Austria, KOLLER, 598; WETTSTEIN, 1161; Hungary, EHR, 292, 294; HANKO, 438; VÁSÁRHELY, 1110, 1111, 1112; Switzerland, MARIETAN, 717; Poland, FUDAKOWSKI, 363; KORSÁK, 609; LUBICZ V. N., 686.

Spain.—MORALES-AGACINO, 750.

Yugoslavia.—Dalmatia, DATHE, 242.

Roumania.—BOTOZET, 124; CALINESCU, 165, 166, 167; CEHOVSKI, 186; MUNTIU & VASILIU, 761.

Russia.—HEPTNER, 461; OGNEV, 797, 798, 800; VINOGRADOV, 1122; Gov. Tver, STROGANOW, 1055; Caucasus, FORMOZOW, 339; HEPTNER, 462; TUROV & KRASOVSKY, 1105.

North Africa.—MOROCCO, JOLEAUD, 553.

Western Asia.—Asia Minor, BARCLAY, 54; Persia, BECKER, 75.

Russian Asia.—OGNEV, 797-800; VINOGRADOV, 1122; Siberia, ARGYROPULO, 36; BARCLAY, 55; BELOPOLSKIY, 82; FLEROW, 332; NAUMOFF, 773; ZVEREV, 1212; Kazakhstan, BELJAIEV, 80; GOODWIN, 382; Turkestan, BOBRINSKOY, 112; HEPTNER, 461; KASHKAROV, 563, 564.

Central Asia.—Mongolia, FORMOZOW, 338; JAKOVLEFF, 541.

Eastern Asia.—Manchuria, LOUKASHKIN, 684; LOUKASHKIN & JERNAKOV, 685; Corea, KISHIDA, 580; KISHIDA & MORI, 581; KURODA, 629; China, JAKOVLEFF, 541, 542.

Japan and Neighbouring Islands.—Sado I., TOKUDA, 1090; Yaku-shima and Tanega-shima, TOKUDA, 1091; Loochoo Is., KISHIDA, 578; Kurile Is., KURODA, 627, 628.

ETHIOPIAN REGION.

General.—SCHWARZ, 979, 980, 981.

West Africa.—Sahara, HEIM DE B., 455; Rio de Oro, MORALES-AGACINO, 749; Nigeria, ANON, 22; NEWTON, 786; SHORTHOUSE, 998, 999; Chad region, PÉCAUD, 832; French West and Equatorial Africa, BLANCOU, 109; BOUET, 125; LAVAUDEN, 639; Belgian Congo, HATT, 446, 447, 448; REIMACHEV, 888; SCHOUTEDEN, 968; Angola, ZUKOWSKY, 1208.

South Africa.—South West Africa, SHORTHIDGE, 1000; Zululand, ROBERTS, 891.

Central and East Africa.—Nyasaland MURRAY, 766; Kenya Colony, ST. LEGER, 938, 939.

Northeastern Africa.—Italian Somaliland, DE BEAUX, 73; Eritrea, DE BEAUX, 72; Anglo-Egyptian Sudan, HATT, 446.

Arabia.—POCOCK, 858.

Madagascar.—GRANDIDIER, 386.

INDIAN REGION.

India (including Ceylon).—POCOCK, 859, 861; PRATER & others, 872; ZUKOWSKY, 1210, 1211; Ceylon, HILL, 490, 491; PHILLIPS, 843, 844; Assam, WOOD, 1181; Manipur, HIGGINS, 484; Burma, THOM, 1081.

South China and Indochina.—Szechwan, F. T. SMITH, 1017; Hong Kong, HERKLOTS, 466; Indochina, HARRISON, 442; Siam, KNOTTNERUS-MEYER, 591; OSGOOD, 812.

Malaysia.—Malay Peninsula, CHASEN, 192; PAGE, 818; Dutch East India, FRECHKOP, 353; Sumatra, COENRAAD,

215; HAZEWINKEL, 452; JACOBSON, 539; NAINGGOLAN, 770; PIETERS, 848; Java, APPLEMAN, 34; DAKKUS, 235; OLIVIER, 803; SODY, 1020, 1021; Borneo, CHASEN, 193, 194, 196; MILLER, 734, 735; WITKAMP, 1175.

AUSTRALIAN REGION.

Australia.—BRAZENOV, 138; HOWCHIN, 505; IREDALE & TROUGHTON, 530; Victoria, BARRETT, 58; BRAZENOV, 139; LEWIS, 654; Tasmania, FINLAYSON, 324; South Australia, BARRY, 61; FINLAYSON, 324, 325, 326; Western Australia, GLAUERT, 380.

Austro - Malayan Islands.—New Guinea, RUMMLER, 919; SODY, 1020; Aru Is., SCHWARZ, 982.

Pacific Islands.—Caroline Is. and Marianne Is., TATE, 1070; Solomon Is., TATE, 1071.

NEOTROPICAL REGION.

General.—RUSCONI, 925.

South America.—Argentina, CABRERA, 160, 163; RUSCONI, 928; Chile, MACCHIAVELLO, 699; Brazil, v. IHERING, 526; SCHIRCH, 954.

Central America.—Honduras, TEST, 1080; Guatemala, GOODWIN, 383.

West Indies.—Cuba, DE BEAUFORT, 71.

NEARCTIC REGION.

General.—NELSON & GOLDMAN, 780.

Mexico.—HUEY, 517; NELSON & GOLDMAN, 778; SONORA, BLOSSOM, 110; BURT, 151; NELSON & GOLDMAN, 779; Lower California, ORR, 806.

Western U.S.A.—California, GRINNELL, 404, 405; GRINNELL & ORR, 406; HALL & HATFIELD, 426; HUEY, 516; Oregon, ORR, 805; Washington State, MACY, 706; Arizona, BENSON, 89, 90; BLOSSOM, 110; BURT & CAMPBELL, 153; CAMPBELL, 170; DOUTT, 273; HALL & DAVIS, 424; TAYLOR, 1075; New Mexico, BENSON, 91; Nevada, BORELL & ELLIS, 120; BURT, 152; HALL, 423; Utah, BENSON, 88; DURRANT, 280; Colorado, WARREN, 1140; Idaho, DAVIS, 248; WHITLOW & HALL, 1164.

Middle U.S.A.—Wisconsin, NELSON, 776; Michigan, BARTLETT, 62; Indiana, ENGELS, 310; LYON, 693, 694, 695, 696; Ohio, MOSELEY, 757; Kansas, HIBBARD, 481, 483; Missouri, ENDERS, 307; Arkansas, BLACK, 107; Oklahoma, JACKSON & WARFEL, 536.

Eastern U.S.A.—Georgia, HOWELL, 510; S. Carolina, NELSON, 776; Kentucky, BAILEY, 47; New York, HAMILTON, 429, 431; Long Island, NICHOLS, 789.

Canada.—BLACK, 108; Manitoba, GREEN, 395; British Columbia, DAVIS, 248; Vancouver I., ANDERSON, 20; Mackenzie, HORNBY, 504.

Arctic America.—Greenland and Arctic Canada, NELSON, 777; Alaska, HALL & GILMORE, 425; HOWELL, 508.

OCEANS AND SEAS.

Baltic and North Sea, BENICK, 84; FRASER, 350; LÖNNBERG, 682; British seas, FRASER, 349; MATHESON & COWLEY, 721; OLDHAM, 802; STEVEN, 1037; French coasts, CARPENTIER, 175; Atlantic coast of Georgia, TOMKINS, 1096; St. Helena coast, MORTENSEN, 755, 756; South Atlantic, MIRANDORIBEIRO, 738; South Georgia, WHEELER, 1162; Pacific coast of Mexico, LÖNNBERG, 679; Chinese seas, SERENE, 990; White Sea, BIRULA, 102.

GEOGRAPHY, FOSSIL FAUNAS.

Lias.—Wurttemberg, E. v. HUENE, 514.

Eocene.—Germany, HELLER, 459; WEITZEL, 1154; Mongolia, GRANGER & GREGORY, 387; N. China, YOUNG, 1188; Argentina, SIMPSON, 1009; California, STOCK, 1045, 1046, 1047, 1048, 1049; Utah, BURKE, 146, 147; PETERSON, 836; Colorado, PATTERSON, 830; Wyoming, THORPE, 1084; WOOD, 1180.

Oligocene.—France, ASTRE, 41, 42, 43; GEAIS, 371; Germany, HELLER, 460; WEHRLI, 1149; Mongolia, COLBERT, 219; Argentina, PATTERSON, 829; California, STOCK, 1042; Utah, BURKE, 146; PETERSON, 837; Wyom-

ing, SCHLAICKER, 956; N. Dakota, BURKE, 146; S. Dakota, JEPSEN, 548; Nebraska, COOK, 222; Saskatchewan, RUSSELL, 931.

Miocene (including Pontian).—Bavaria, DEHM, 259; Hungary, KORMOS, 603; Tunisia, ROMAN & SOLIGNAC, 907; S.E. Russia, RIABININ, 886; Mongolia, COLBERT, 217, 219; PILGRIM, 850; STIRTON, 1040; Baluchistan, FORSTER-COOPER, 344; India, COLBERT, 218; LEWIS, 656; Kenya, ARAMBOURG, 35; Venezuela, COLLINS, 221; California, BODE, 113; KELLOGG, 569; STOCK, 1044; Oregon, PACKARD & KELLOGG, 815; Wyoming, SCHLAICKER, 957; Nebraska, COOK, 222; BARBOUR & SCHULTZ, 51; Florida, CASE, 176.

Pliocene; Old World.—France, HELBING, 457; VIRET, 1123; Holland, BERNSEN, 95; Switzerland, PLAZ, 846; Germany, KÜNTHE, 631; Austria, AMON, 17; Hungary, KORMOS, 602, 604, 605; Italy, MONTANARO, 745; STEHLIN, 1034; Roumania, SAHLEANU, 936; China, KORMOS, 607; India, LEWIS, 655.

Pliocene; New World.—Argentina, PATTERSON, 826; RIGGS, 890; RUSCONI, 921, 922, 926, 927; Uruguay, KRAGLIEVICH, 612; RUSCONI, 920; California, HESSE, 479; Idaho, GAZIN, 369, 370; WILSON, 1168; Nebraska, BARBOUR & SCHULTZ, 51; HIBBARD, 482.

Pleistocene to Recent; Europe.—British Is., GARDINER, 366; REYNOLDS, 885; France, BASTIN, 64; BENOIT, 85; DUTERTRE, 282; PONTIER, 869; Holland, RAVEN, 882; Denmark, DEGEBOEL, 257; Sweden, OLLOFSSON, 804a; Germany, FLORIAN, 334; HELLER, 458; TOEPFER, 1089; Saxony, WANDERER, 1137; Wurttemberg, HELBING, 456; Austria, EHRENBURG, 296; PETTERS, 839; SICKENBERG, 1003, 1004; Czechoslovakia, LIEBUS, 658, 659; SCHIRMEISEN, 955; SUR, 1060; SUSTA, 1068; Poland, NIEZABITOWSKI, 794; Italy, AIRAGHI, 8; CAMILLO, 169; LEONARDI, 651; Roumania, NICOLAESCU-BARBU & PAPPADOPOL, 792; SAHLEANU, 936; Roumania, SAHLEANU, 937; N. Caucasus, GROMOVA, 407.

Pleistocene to Recent, Extra-European.—Palestine, BATE, 65; Siberia, BELIAEVA, 78, 79; FLEROW, 333; Japan, SHIKAMA, 997; Manchuria, LOUKASHKIN, 683; TOKUNAGA & NAORA, 1092, 1093; China, BLACK, 104; PEI, 833; Africa, ROBINSON, 893; South Africa, BROOM, 142; OSBORN, 807; Tanganyika Terr., HOPWOOD, 503; Abyssinia, JOLEAUD, 552; Madagascar, LAMBERTON, 633; India, RAO, 880; Australia, HOWCHIN, 505; New South Wales, ANDERSON & FLETCHER, 18.

Pleistocene to Recent; America.—Chile, CABRERA, 161; West Indies, SCHREUDER, 971; Bahamas, LAWRENCE, 641; California, WILSON, 1167; Arizona, ROOSEVELT & BURDEN, 910; Indiana, ENGELS, 309; Oklahoma, STOVALL & JOHNSTON, 1052; Massachusetts, SANFORD, 944; Greenland, DEGERBØL, 258.

Tertiary; General and Undefined.—Austria, PIA & SICKENBERG, 845; Patagonia, KELLOGG, 568; Argentina, AMEGHINO, 16; California, MERRIAM & STOCK, 728; Nebraska, COOK, 223.

III.—SYSTEMATIC.

The arrangement of the families has been altered to correspond with the other portions of the Record, and they are newly arranged in order from the lowest and most generalized to the Primates which now come at the end. The classification follows as before Trouessart's Catalogue, with some exceptions. The numerals in heavy type refer to the "Titles," those in smaller Clarendon type to volume numbers of the references.

ORDER MULTITUBERCULATA

(Including other Mesozoic Mammals of doubtful affinities.)

General habits of Jurassic Mammals, Multituberculata, etc., derived from study of dental structures, SIMPSON 1011.

†*Microcleptes* (?) sp. descr. figs. Lias Wurtemberg p. 77 figs., E. v. HUENE 514.

†*Mucrotherium cingulatum* gen. et sp. n. Lias ? Wurtemberg, E. v. HUENE Jhft. Ver. vaterl. Nat. 89 p. 71 figs.

†*Uniserium enigmaticum* gen. et sp. n. Lias Wurtemberg, E. v. HUENE Jhft. Ver. vaterl. Nat. 89 p. 74 figs.

ORDER MONOTREMATA.

Echidna aculeata habits in captivity, COLEMAN 220; Structure of the brain, ABBIE 1; The elbow and forearm compared with that of a Jurassic fossil from near Heidelberg, FREUDENBERG 354.

Ornithorhynchus paradoxus diet in captivity, BARRETT 59; Habits in captivity, EADIE 285.

ORDER MARSUPIALIA.

Distribution of the Marsupials of Western Australia, GLAUERT 380.

DIDELPHYIDAE.

Didelphys descent of testicles shortly before birth, KIESSELBACH 574.—*D. paraguayensis* habits in captivity, first importation, HEDIGER 454.

Lestodelphys gen. n. to replace *Notodelphys* Thos. preocc. for type *N. halli* Thos., TATE J. Mammal 15 p. 154.

Marmosa janetta pulchella subsp. n. Santiago del Estero, Argentina, CABRERA Notas Prelim. Mus. La Plata 3 p. 126.

BORHYAENIDAE.

†*Thylacosmilus* osteology, relationships and list of other genera of the family figs., RIGGS 890.

DASYURIDAE.

Chaetocercus cristicauda hillieri addt. desc. of rediscovered examples p. 200, FINLAYSON 325.

Myrmecobius on the presternal glandular area, BOURNE 131; Structure of sternal gland, FORD 336.—*M. fasciatus rufus* var. n. N.W. South Australia, FINLAYSON Trans. Roy. Soc. S. Aust. 57 p. 203.

Phascogale penicillata breeding habits: first account, FLEAY 329.

Smynthopsis lumholzi nom. n. for *Phascogale virginiae* Collett invalid, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 11.—*S. crassicaudata centralis*, *S. larapinta* descr. and habits p. 197, FINLAYSON 325.

CAENOLESTIDAE.

Cryptolestes gen. n. to replace *Orolestes* Thos. preocc. for type *O. inca* Thos., TATE J. Mammal. 15 p. 154.

Lestorox gen. n. for *Orolestes* Thos. and *Cryptoleucus* Tate preocc. for type *Orolestes inca* Thos., OEHSE J. Mammal. 15 p. 240.

MACROPODIDAE.

Dorcopsis veterum veterum note, SCHWARZ 982.

Macropus rufus behaviour during birth of young, DATHE 243; With actinomycosis, HOLZ 497.—*M. parryi* no. of chromosomes, MATTHEY 723.

DIPROTODONTIDAE.

†*Euryzygoma dunense* a proposed restoration figured, LONGMAN 678.

PHASCOLOMYIDAE.

Wombatula gen. n. for type *Phascolumys gillespiei* De Vis, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 35 [no diagn.].

PHALANGERIDAE.

Acrobates pygmaeus gliding habits, TROUGHTON 1102.

Petaurus australis field observations in Victoria fig., BRAZENOV 137.—*P. breviceps* and other spp. gliding and other habits, photos, TROUGHTON 1102.

Phalanger gymnotis from Kobroor, Aru Is. and note on the evolution of the species of the genus, SCHWARZ, 982.

Phascolarctos cinereus structure and habits, MACKENZIE 702; Fossil remains and relatives, CHAPMAN 190; Early history, IREDALE & WHITLEY, 531; In Victoria, LEWIS 654; KERSHAW 572; Food-trees, SUTTON 1065; Notes and photos, BURNET 149.

Trichosurus vulpecula structure of adrenals, BOURNE 132.

ORDER EDENTATA.

Notes on types of *Aquila antiqua* and *A. ferox* based on Edentate claws, WETMORE 1160.

ORYCTEROPIDAE.

Orycteropus structure and development of the teeth, ADLOFF 5; teeth and skull, ANTHONY 25, 25a; VIRCHOW 1121; Structure of the sensory hairs, KRUMBEGEL 620.—*O. erikssoni* races in Belgian Congo, skull characters, habits, etc., photos, HATT 448.

†*Orycteropus* note on a skull from Pliocene of S.W. France, HELBIG 457.

MANIDAE.

Manis popular account, photos, HATT 449.—*M. (Smutsia) gigantea* p. 646, *M. (Uromanis) longicaudatus* p. 651, *M. (Phataginus) tricuspis* p. 655 characters, distinctions, range and habits in Belgian Congo, HATT 448.

†*Manis hungarica* sp. n. Upper Pliocene Hungary, KORMOS Folia zool. hydrob. 6 p. 87 figs.

DASYPODIDAE.

Dasyus novemcinctus the diaphragm muscles, LOCCHI 669; Diencephalon of the brain, HOWE 506.

†*Doellotatus chapadmalensis* p. 609 figs., *D. simpsoni* p. 611 figs. spp. n. Tertiary Argentina, BORDAS An. Mus. Argent. 37.

†*Eutatinæ* subf. n. p. 584 for *Eutatus* new descr. of genus p. 585, *E. ameghinoi* addt. descr. figs. p. 598, BORDAS 119.

GLYPTODONTIDAE.

†*Plohophorops araucanus* note p. 106, RUSCONI 927.

MEGATHERIIDAE.

†*Megatherium* cf. *tarijensis* note figs. p. 184, RUSCONI 922.

†*Mytilodon darwini* and allied forms, general descr. figs., KRAGLIEVICH 613.

MEGALONICHIDAE.

†*Prepotherium venezuelanum* sp. n. Miocene? Venezuela, COLLINS John Hopkins Univ. Stud. Geol. no. 11 p. 241 figs.

ORDER CETACEA.

Report of Cetacea stranded on British coasts 1927-1932, with some account of the species and a key for their determination, FRASER 349, 350.

BALAENIDAE.

Metabolism and respiratory physiology of Whales, KROGH 617.

Breathing habits of Whales, GRAY 392; Whales and caisson disease, CAMPBELL 171; GRAY 393; Physiology of Whales, GRAY 391; Whales and their human enemies, GRAY 390.

The stock of Whales at South Georgia, WHEELER 1162.

Report on pelagic whaling in the Antarctic 1932-4, HJORT & others 494

Whales stranded in Brittany, CARPENTIER 175.

The weight of Whales p. 392, ZENKOVIC 1192.

Analysis of Whale oil and blubber, SCHMIDT-NIELSEN & FLOOD 961; of Whale milk-fat, SCHMIDT-NIELSEN & FROG 962.

†*Aglaocetus* gen. n. for genotype *Cetotherium moreni* Lydek. with descr. of a fresh skull from Chubut, Patagonia, KELLOGG Publ. Carnegie Instn. no. 447 p. 65 figs.

Balaena discussion on supposed occurrence on Brazil coasts, MIRANDORIBIERO 738.

Balaenoptera musculus stranded at Madoera I. off Java, DELSMAN 261; The skeleton in the British Museum and the method of mounting, FRASER & SMITH 351.—*B. borealis* structure of the hairs, HAUSMAN 451.—*B. sulfurea* anatomy of brain, WILSON 1166.

†*Cetotherium mayeri* Miocene, Caucasus, skeleton descr. figs., RIABININ 886.

†*Cophocetus* gen. n. (Cetotheriidae) p. 24 for type *C. oregonensis* sp. n. Miocene Oregon, PACKARD & KELLOGG Pub. Carnegie Instn. no. 447 p. 24 figs.

†*Mixocetus* gen. n. (Cetotheriidae) for genotype *M. elysius* sp. n. Miocene California, KELLOGG Pub. Carnegie Instn. no. 417 p. 85 figs.

Rhachianectes glaucus feeds on sea bottom Amphipods p. 390, ZENKOVIC 1192.

Sibbaldius musculus dimension of ex. in San Francisco Mus., DAVIDSON 246.

PHYSETERIDAE.

Kogia breviceps stranded on coast of Annam, SERÈNE 990; Off coast of Georgia, U.S.A., TOMKINS 1096.

Physeter macrocephalus age, sex and dimensions in N. Pacific p. 391, ZENKOVIC 1192.

DELPHINIDAE.

The economic status of Dolphins to fishery industry in Brazil, PINTO 853.

Facial and blow-hole muscles of *Tursiops* and *Monodon*, HUBER 512.

Delphinapterus leucas and other Cetacea in the White Sea habits and economics p. 11, BIRULA 102.

Delphinus delphis innervation of ganglia of the heart, ARFINO 39.

Fretidelpbis gen. n. for type *Delphinus roseiventris* Wagner, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 65 [no diagn.].

Globicephala scammoni in Japanese seas, TAKASHIMA 1068.

Grampus griseus off Welsh coast, OLDHAM 802; Note on "Pelorus Jack" of New Zealand seas, PARKER 824.

Lagenorhynchus albirostris in the Baltic and North Seas descr. figs., BENICK 84.

Phocaena phocaena a partial albino, PETERS 835.—*P. communis* structure of lungs and adaptation to diving habits, LA COSTE & BAUDRIMONT 632.

Prodelphinus graffmani sp. n. from Pacific coast of Mexico, LÖNNBERG Ark. Zool. Stockh. 26A no. 19 p. 1 figs.

Pseudorca crassidens a school stranded in S. Wales, MATHESON & COWLEY 721.

Tursiops maugianus nom. n. for *T. tursio* Scott & Lord (southern form), IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 68.

PLATANISTIDAE.

†*Schizodelphis bobengi* sp. n. Miocene Florida, CASE Contr. Mus. Paleont. Univ. Michigan 4 p. 106 figs.—*S. canaliculatus* and other Cetacea from Pliocene of Italy descr. figs., MONTANARO 745.

ZEUGLODONTIDAE.

†*Hydrachos harlani* Koch 1846 a supposed fossil sea-monster is composed of bones of various Zeuglodonts, DIETRICH 265.

ORDER SIRENIA.

Anatomy and development of the nasal organ in Sirenia, GENSCHOW 372.

Dugong australis note on skull and dentition figs. p. 5, FRECHKOP 353.

Manatus the St. Helena record probably a Seal-Lion (*Arctocephalus*), MORTENSEN 755, 756.

Trichechus [*Manatus*] review of the recent spp. skeletal and other differences, range, photos, etc., HATT 447.

ORDER UNGULATA.

A proposed classification of South American Ungulata, SIMPSON 1010.

Notioprogonia subord. nov. (of Notoungulata) p. 10, SIMPSON 1010.

Trigonostylopoidea subord. nov. (of Astrapotherioidea) p. 19, SIMPSON 1010.

Structure of the molars of the Notoungulata with notes on taxonomy, PATTERSON 827.

Classification and relationships of the Ruminant Ungulata, BOAS 111.

The distribution problems of the Ungulates of Amurland and E. Siberia, FLEROW 332.

Articulation of the lower jaw in Ungulata, FORSTER 343.

SUBORDER HYRACOIDEA.

Osteology, dentition, systematics, fossil forms, habits and distribution of the family, HAHN 416.

Characters of skull for differentiating the species, BRAUER 136.

Procavia antineae, *P. bounhioli* and other Saharan spp. taxonomic relations and distinctions, HEIM DE B., 455.

†*Procavia (Prohyrax) antiqua* sp. n. Pleistocene S. Africa, BROOM S. Afr. J. Sci. 31 p. 472 figs.

SUBORDER TYPOTHERIA.

†*Pseudotypotherium insigne* note p. 106, RUSCONI 927.—*P. pseudopachygnathum* auditory region of skull figs., PATTERSON 826.

Trachytherus spegazzinianus dentition, skull, affinities, PATTERSON 829.

SUBORDER CONDYLATHRA.

†*Hyracops socialis* Marsh 1892 = *Meniscotherium terraerubrae* Cope 1881 notes figs. p. 406, THORPE 1084.

†*Meniscotherium robustum* sp. n. L. Eocene Wyoming, THORPE Amer. J. Sci. 27 p. 401 figs.

SUBORDER LITOPTERNA.

†*Oxydontherium* sp. descr. Pliocene Argentina p. 24, RUSCONI 921.

SUBORDER ENTELONYCHIA.

†*Homalodotherium segoviae* skull descr. fig., PATTERSON 828.

†*Scarrittia* gen. n. (Colpodontidae) for *S. canquelsensis* Eocene? Patagonia, SIMPSON Amer. Mus. Nov. no. 735 p. 2.

SUBORDER AMBLYPODA.

†*Eudinoceras* sp. indet. fig. and note of molar, YOUNG 1188.

Pantolambdodontidae fam. n. for *Pantolambdodon inermis* (type) gen. et sp. n. p. 7, also *P. fortis* sp. n. p. 8 U. Eocene Mongolia, GRANGER & GREGORY Amer. Mus. Nov. 720 figs.

Titanoidinae subfam. n. p. 72 for *Titanoides faberi* descr. osteology, relationships and geological age figs., PATTERSON 830.

SUBORDER PROBOSCEIDA.

Phylogeny and evolution of the Proboscidea, OSBORN 808, 809; Notes on South African primitive Proboscidea, OSBORN 807.

Structure and phylogeny of Proboscidean molars, PONTIER & ANTHONY 870.

Elephant diseases and their cure, HOLZ 500.

†*Archidiskodon proplanifrons* sp. n. Vaal river gravels, OSBORN Amer. Mus. Nov. 741 p. 10.

†*Cryptomastodon martini* critical remarks on family and generic status, DIETRICH 264.

Elephas maximus statistics of growth, HUNDLEY 519.—*E. indicus* statistics of growth from 1st to 26th year, HUNDLEY 520.—Structure of foot, NEUVILLE 784; Ecological status and general habits in Sumatra, PIETERS 848.—*E. africanus* present status and future prospects, HOBLEY 495; Distr. and habits in Nigeria, SHORTHOUSE 999; Pigmy Elephants discussed, DOLLMAN 270.—*E. cyclotis* captive examples in America, BROWN 144.

†*Elephas* variation in molars of extinct spp. in France, DUTERTRE 282; Note on the species found in N. France, PONTIER 869; Fossil remains in Palestine, BATE 66.—*E. primigenius* note on molar in Dep. Aube, France, JODOT 549; In paleolithic station N. Caucasus figs. p. 306, GROMOVA 407.—*E. trogontherii* first find in diluvial beds in Saxony, WANDERER 1137.—*E. imperator* hypertrophy of jaw figs., STOVALL & JOHNSTON 1053.

†*Mastodon* the question of contemporaneous representations by man, STROMER 1056.—*M. moodiei* skull descr. figs., BARBOUR 49.

†*Metarchidiskodon* gen. n. for *Loxodonta griqua* Houghton, OSBORN Amer. Mus. Nov. 741 pp. 2, 12.

†*Platybelodon barnumbrowni* mandible and teeth descr. figs., BARBOUR 50.—*P. granjeri* discussion on the supra-symphysial depression of lower jaw, GREGORY 400.

SUBORDER PERISSODACTYLA.

PALAEOTHERIIDAE.

†*Palaeotherium crassum*, *P. stehlini* in Ludian beds of Aude France, ASTRE 43.

TITANOTHERIIDAE.

Phylogeny and relative growth in the Titanotheres, HERSH 469.

†*Brontops canadensis* sp. n. Oligocene Saskatchewan, RUSSELL Trans. Canad. Inst. 20 p. 59.

†*Diplacodon progressum* sp. n. Eocene Utah, PETERSON Ann. Carnegie Mus. 22 p. 352 figs.

†*Menodus cutleri*, *M. lambei* spp. n. Oligocene Saskatchewan, RUSSELL Trans. Canad. Inst. 20 p. 60 figs.

†*Sthenodectes priscus* sp. n. Eocene Utah, PETERSON Ann. Carnegie Mus. 22 p. 356 fig.

†*Teleodus primitivus* remarks figs. p. 58, RUSSELL 931.

RHINOCEROTIDAE.

A review of the skulls in reference to their habits in recent and fossil Rhinoceroses, ZEUNER 1193.

A review of the extinct forms from Baluchistan — *Aceratherium*, *Chilotherium*, *Paraceratherium* etc., FORSTER-COOPER 344.

Revision of the Hyrachyidae with descr., stratigraphic correlation, nomenclature and phylogeny, WOOD 1180.

†*Aceratherium temanense* a molar descr. fig., ASTRE 42.—*A. abeli* sp. n. Miocene Baluchistan, FORSTER-COOPER Phil. Trans. 223B p. 596 figs.

†*Ceratorhinus tagicus tolosanus* mut. n. Stampian France, ASTRE Bull. Soc. Hist. nat. Toulouse 65 p. 124.

†*Coelodonta antiquitatis* in Quaternary beds of Holland, RAVEN 882.

†*Diaceratherium florsheimense* sp. n. Oligo-Miocene beds Mainz Basin, HELLER Senckenbergiana 15 p. 295 6 figs.

†*Ephyrachyus* gen. n. p. 232 for type *Hyrachyus implicatus* Cope p. 233 descr. figs., *E. cristatophus* sp. n. Eocene Wyoming p. 238 figs., WOOD Bull. Amer. Mus. 67.

†*Epitriplopus medius* sp. n. Oligocene Utah, PETERSON Ann. Carnegie Mus. 23 p. 387 figs.

†*Gaindatherium* gen. n. for type *G. browni* sp. n. Miocene (L. Siwaliks) India, COLBERT Amer. Mus. Nov. no. 749 p. 1 figs.

†*Hyrachyus hypostylus* sp. n. Eocene Wyoming p. 205 with descr. and discussion of other spp., *H. douglassi* nom. n. pro *H. priscus* Douglass nec Filhol p. 208, WOOD Bull. Amer. Mus. 67.

†*Hyracodon browni* sp. n. Oligocene Saskatchewan, RUSSELL Trans. Canad. Inst. 20 p. 57 fig.—*H. primus* sp. n. Oligocene Utah, PETERSON Ann. Carnegie Mus. 23 p. 388 figs.

†*Metahyrachyus troxelli* sp. n. Eocene Wyoming, WOOD Bull. Amer. Mus. 67 p. 230 figs.

†*Paraceratherium* (?) *churlandensis* sp. n. Miocene Baluchistan, FORSTER-COOPER Phil. Trans. 223B p. 611 figs.

Rhinoceros sondaicus present status in Sumatra, HAZEWINKEL 452.

†*Rhinoceros antiquitatis* remains in Bohemia descr. fig. p. 15, LIEBUS 659; A find in diluvial beds, Czechoslovakia, SUSTA 1064.—*R. lenensis* (= *antiquitatis*) study of upper molars, JACOBSEN 537.

†*Subhyracodon kewi* sp. n. Oligocene California, STOCK Pub. Carnegie Instn. 440 p. 17 figs.

FAM. TAPIRIDAE.

†*Paratapirus helveticus* Stampian France, note, ASTRE 41.

†*Tapirulum* subg. n. see *Tapirus*.

Tapirus indicus in Sumatra, COENRAAD 215.

†*Tapirus* (*Tapirulum* subg. n.) *gresleini* sp. n. Pliocene Argentina, RUSCONI An. Soc. cient. argent. 117 p. 25 figs.—*T. haysii* addt. characters in a skull from Pleistocene of Oklahoma, STOVALL & JOHNSTON 1052.

EQUIDAE.

Domesticated varieties of ponies and donkeys at Vienna Zool. Gardens, ANTONIUS 29.

Equine hybrids in the Vienna Zool. Gardens, ANTONIUS 33.

Equus caballus development of sinus maxillaris etc., SÖRENSEN 1022; Frontal protuberances descr. figs., CHUBB 202; Bony structure in mandible, CECCHINI 185; Tooth-development, ADLOFF 4; Age-changes in dentition, PIRILÄ 855; Structure of hypophysis cerebri, HILLER 492; Structure of larynx, LEPPERT 652; Blood vessels of hoof and toes, KRÜGER 619; Structure of the folds in the colon, VAU 1114; A case of polydactyly, RUŽIČKA 934; Genetics of coat colour and "chestnuts," IWANOWA 534; A Shetland foal abnormally coloured RZAŚNICKI 935; Ancestry of Horse, controversial, SKORKOWSKI 1013; Early history in China, YETTS 1187a.

Equus caballus gmelini note on the "Tarpan" race of S. Russia, HEPTNER 464.—*E. c. gmelini* and *E. c. przewalskii* skull characters and other differences, VETULANI & SCHULZE 1118.—*E. asinus* African races, historical and other notes, MONOD 744.—*E. hemionus* osteology and systematic affinities discussed,

BOURDELLE 127.—*E. hemionus* osteology and syst. position discussed, BOURDELLE 128.—*E. quagga wahlbergi* notes and photos in Vienna Zoo p. 16, ANTONIUS 31.

†*Equus molars* and bones descr. p. 20 LIEBUS 659.—*E. occidentalis* a skull from Rancho La Brea, California, ANTONIUS 28.

†*Hipparion* nr. *mohavense* descr. figs. p. 3, MERRIAM & STOCK 728.

Hippotigris hartmannae status and habits, SHORTRIDGE & BLAINE 1001.

†*Hypohippus*, *Parahippus*, *Archaeohippus* and other Anchitherine Horses descr. figs. and discussion of genera, BODE 113.

†*Libyhipparion ethiopicum* gen. et sp. n. Quaternary beds, S. Abyssinia, JOLEAUD Bull. Soc. géol. Fr. (5) 3 1933 p. 7 figs.

†*Miohippus* sp. descr. figs. Oligocene Calif. p. 23, STOCK 1042.

†*Onchippidion* sp. descr. figs. molar p. 182, RUSCONI 922.—*O. saldiassi puelchensis* subsp. n. Pliocene Argentina, RUSCONI An. Soc. cient. argent. 117 p. 27 figs.

CHALICOTHERIIDAE.

Classification and distr. of the Chalicotheres and descriptions of new Asiatic spp., COLBERT 219.

†*Grangeria gobiensis* sp. n. Eocene Mongolia, COLBERT Bull. Amer. Mus. 67 p. 355 figs.

†*Macrotherium brevirostris* sp. n. Miocene Mongolia, COLBERT Bull. Amer. Mus. 67 p. 374 figs.

†*Oreinothierium* gen. n. p. 62 for *Chalicotherium bilobatum* Cope, RUSSELL Trans. Canad. Inst. 20.

†*Schizotherium avitum* and other spp. Oligocene Mongolia descr. figs. p. 371, COLBERT 219.

SUBORDER ARTIODACTYLA.

Artiodactyles of Roumania range and status, CĂLINESCU 166.

Zoogeography of Siberian Artiodactyles, SALESSKI 940.

Artiodactyles of the Anadyr region N.E. Siberia, BELOPOLSKIJ 82.

Blood vessels of toes in Artiodactyles, LECHNER 646.

HOMACODONTIDAE.

†*Helohyus* (?) sp. descr. fig. Oligocene
Utah p. 275, PETERSON 837.

ANTHRACOTHERIDAE.

†*Brachyodus borbonicus* [descr.] skeleton
Oligocene nr. Marseilles, GEAIS 371.

SUIDAE.

†*Anthracobunodon weigelti* gen. et
sp. n. (nr. *Haplobunodon*) M. Eocene nr.
Halle, Germany, HELLER Palaeont. Z.
16 p. 247 figs.

Babirusa babyrussa frosti note on
living examples, SCHWARZ 984.

Dicotyles tayacu in captivity, ICHES
525.

†*Hippohyus deterrai* sp. n. Middle
Siwaliks (Miocene?) of Punjab Salt
Range, LEWIS Amer. J. Sci. 27 p. 457
fig.

†*Koiropotamus majus* sp. n. Pleisto-
cene, Tanganyika Terr., HOPWOOD
Ann. Mag. N.H. (10) 14 p. 547.

†*Listriodon splendens*, *L. lockharti*
osteol. dentition from U. Miocene
Bavaria figs., DEHM 259.—*L. mongoli-
ensis* sp. n. Miocene Mongolia, COLBERT
Amer. Mus. Nov. no. 690 p. 1 figs.

†*Notochoerus dietrichi* sp. n. Pleisto-
cene Tanganyika Terr., HOPWOOD Ann.
Mag. N.H. (10) 14 p. 548.

Phacochoerus aethiopicus field obser-
vations col. pl., ANON 22.

†*Phacochoerus garrodæ* sp. n. Pleisto-
cene Palestine, BATE Ann. Mag. N.H.
(10) 13 p. 121 figs.

Sus physiology of reproduction and
mating habits, RODOLFO 903; Descent
of the testes, DAY 253; Development
of vagina, BAXTER 69; KEMPERMANN
570; Case of monochorionic twins,
HARMAN 440; Genetic studies of
Roumanian races, TEODOREANU 1078;
Development of foetal skull, NEUKOMM
782; Anatomy of female genital organs,
NEUVILLE 783; Intersexuality and the
amniotic structures, COHRS 216.—*S.
scrofa* anatomy of head and throat and
origin of domestic races, GABRIEL 365;
Food in Roumania, BOTEZAT 123.—*S.
barbatus* development of the skull and
changes due to growth in life, TODD &
COOKE 1087.—*S. vittatus*, *S. verrucosus*
question of distinctions and status in
Java, OLIVIER 804.

†*Sus scrofa mosbachensis* of Pliocene
a doubtful race figs., KÜTHE 631.

HIPPOPOTAMIDAE.

Evolution and specialization in the
incisors of the Hippopotamus, v. KOE-
NIGSWALD 594.

Hippopotamus amphibius capensis
Desmoulins date of publication and
type locality p. 261, SCHWARZ 980.

AGRIOCHOERIDAE

(OREODONTIDAE).

†*Eporeodon cheeki* sp. n. Miocene
Wyoming, SCHLAICKJER Proc. Boston
Soc. N.H. 40 p. 220.—*E. thurstoni* sp. n.
Eocene California, STOCK Proc. Nat.
Acad. Sci. Wash. 20 p. 522 figs.

†*Mesagriochœrus primus* gen.
(Agriochœridae) et sp. n. Oligocene
Utah, PETERSON Ann. Carnegie Mus.
23 p. 377 figs.

†*Mesoreodon scotti* sp. n. Miocene
Wyoming, SCHLAICKJER Proc. Boston
Soc. N.H. 40 p. 223.

Promerycochoerus loomisi sp. n.
Miocene Wyoming, SCHLAICKJER Proc.
Boston Soc. N.H. 40 p. 225.—*Promery-
cochoerus* sp. slab with skeleton of adult
and juv. descr. fig., BARBOUR &
SCHULZ 52.

CAMELIDAE.

General account of the Lamas and
allies, LÉON 650.

Camelus bactrianus myology, SJO-
MUSCHKIN 1012; Spinal accessory nerve
lacking, KISS & ZUCKERMAN 582.

†*Camelus* early and historical notes in
N.E. Africa, ROBINSON 893.

Lama the spinal accessory nerve in
this and other long-necked Ungulates,
HOWELL & STRAUS 507.

†*Pliachaenia*? descr. figs. p. 5,
MERRIAM & STOCK 728.

TRAGULIDAE.

†*Bachitherium*, review of spp., den-
tition and phylogeny, WEHRLI 1149.

Tragulus general notes, photo of
Javanese spp., DAKKUS 235.—*T. kanchil
klossi* subsp. n. N. Borneo, CHASEN Bull.
Raffles Mus. no. 9 p. 98.

HYPERTRAGULIDAE.

†*Blastomeryx pristinus* p. 157, *B. cursor* p. 158, *B. tantillus* p. 159 spp. n. figs. Miocene Nebraska, COOK Amer. Midl. Nat. 15.

†*Hypertragulus chadronensis*, *H. crawfordensis* p. 151, *H. quadratus* p. 152, *H. sequens* p. 153 spp. n. all figs. Oligocene Nebraska, COOK Amer. Midl. Nat. 15.

†*Hypsodus paululus*, *H. ironsi* spp. n. Oligocene Nebraska, COOK Amer. Midl. Nat. 15 p. 156 figs.

†*Leptomeryx antecedens* p. 153, *L. exilis*, *L. lenis* p. 154, *L. agatensis* p. 155 spp. n. figs. Oligocene and Miocene Nebraska, COOK Amer. Midl. Nat. 15.—*L. (?) minutus* sp. n. Oligocene Utah, PETERSON Ann. Carnegie Mus. 23 p. 386 fig.—*L. speciosus* and other spp. remarks figs. p. 64, RUSSELL 931.

†*Simimeryx hudsoni* gen. et sp. n. (Hypertragulidae) U. Eocene California, STROC Proc. Nat. Acad. Sci. Wash. 20 p. 625 figs.

CERVIDAE.

Meaning, use and morphology of the antlers of Deer, BOTEZAT 122.

Dates of antler growth and shedding in Indian Deer, R. C. MORRIS & others 754.

Deer in ancient Egypt, DAWSON 252.

Alces review of spp. and subsp., FLEROW 331.—*A. machlis* conservation, present status and habits in Poland, KORSAK 608, 609; Trapping and transport to Berlin Zoo, HECK 453.—*A. bedfordiae* of Siberia of doubtful validity, BARCLAY 55.—*A. americana* history, habits, range and status on Isle Royale, Michigan, MURIE 764.

†*Alces machlis*, *A. latifrons* distr., osteol., dentition, REYNOLDS 885.

†? *Antifer crassus* sp. n. Pliocene Argentina, RUSCONI An. Soc. cient. argent. 117 p. 29 figs.; Addt. descr. fig. p. 180, RUSCONI 922.

Cervus elaphus supposed giant antlers described in P.Z.S. 1862 p. 142 an artefact, MITCHELL 740; A fine head from East Gothland, LÖNNBERG 681.—*C. canadensis* races in Turkestan and their ranges, BOBRINSKOY 112.—*C. schomburgki* with forked brow tines, WANANDORN 1136.—*C. virginianus*

survey in Adirondacks, ecology, life history, habits, etc., TOWNSEND & SMITH 1101; Census of numbers in Michigan, BARTLETT 62.

†*Cervus elaphus* an antler from a Cumberland marsh, GRAHAM 385; in diluvial beds in Sweden, OLLOFSSON 804a.—*C. canadensis* post-Tertiary of Iowa, CABLE 159.—*C. dicranus* and other spp. from the Pliocene of Holland descr. figs., BERNSEN 95.

Dama dama is the species in Asia Minor; present status, BARCLAY 54.

†*Dromomeryx trigonocorneus* sp. n. U. Miocene Nebraska, BARBOUR & SCHULTZ Amer. Mus. Nov. no. 734 p. 4.

†*Megaceros* skeleton of fore limb as compared with *Alces*, JACOBSSHAGEN 538.—*M. giganteus* problem of former status in Ireland, STELFOX 1036; Evidence of survival into historic times, BACHOFEN-ECHT 45.

†*Nanotragulus matthewsi* sp. n. Miocene Nebraska, COOK Amer. Midl. Nat. 15 p. 160 figs.

Odocoileus hemionus seasonal migrations in Rocky Mts. districts, RUSSELL 930.

†*Odocoileus dolicopsis* a second example, Pleistocene Indiana fig., ENGELS 309.

Rangifer arcticus range, habits, migration in Thelon river distr. Canada, HORNEY 504.

†*Rangifer arcticus* in Pleistocene, Czecho-Slovakia descr. figs. p. 26, LIEBUS 658.—*R. constantini* sp. n. Quaternary nr. Irkutsk, Siberia, FLEROW J. Mammal. 15 p. 239 figs.

PROTOCERATIDAE.

†*Pseudoprotoceras longinarius* gen. et sp. n. Oligocene Nebraska, COOK Amer. Midl. Nat. 15 p. 149 figs.

GIRAFFIDAE.

Giraffa camelopardalis analysis of paces, BOURDELLE 129; The Egyptian god "Set" identified with Giraffe, JENSEN 547.

†*Helladotherium olduvaiensis* sp. n. Pleistocene Tanganyika Terr., HOPWOOD Ann. Mag. N.H. (10) 14 p. 549.

ANTILOCAPRIDAE.

Antilocapra relationship to other Ruminants, BOAS 111.

†*Merycodus prodromus* sp. n. Miocene Nebraska, COOK Amer. Midl. Nat. 15 p. 161 figs.

†*Proantilocapra platycornea* gen. et sp. n. Pliocene Nebraska, BARBOUR & SCHULTZ Amer. Mus. Nov. no. 734 p. 3 figs.

†*Tetrameryx onusrosagris* sp. n. Pleistocene Arizona, ROOSEVELT & BURDEN Amer. Mus. Novit. no. 754 p. 1 fig.

BOVIDAE.

General account of Wild Sheep, Goats, etc., many photos, LEISTER 648.

Distribution of the Antelopes of French West Africa with keys, map, etc., BOUET 125.

List with key of the Katanga Antelopes, RIEMACHER 888.

Structure of hair in various races of cattle, PANOWA 823.

Ammodorcas clarkii note p. 295, DE BEAUX 73.

Antelope cervicapra and its races discussed, *A. hagenbecki* Bengal, *A. rajputanae* Rajputana subsp. n. photos, ZUKOWSKY in Hagenb. illustr. Tier u. Mensch. 2 p. 125.—*A. centralis* sp. n. C. India id. ibid 3 1928 p. 60 photos.

Bibos gaurus field obs., social habits, WILLIAMS 1165; Field notes in Burma, THOM 1081.

Bison bonasus present status; report of the Bison Preservation Society, DE BEAUX 74; Former range in Bukovina, BOTEZAT 124.

†*Bison priscus* in Quaternary beds of Holland, RAVEN 882.—*B. occidentalis* skeleton figs., contemporaneous with man, BARBOUR & SCHULZ 53.

Bos development of the neopallium of the brain, ANTHONY & GRZYBOWSKI 27; Histology of rhinarium, ZIMMERMANN 1198; Structure of glands of the muzzle, MONTI 746, 747; Fibula of a cow calf, LIPATOW, 663; The "Chartley" breed fig., DOLLMAN 269.

†*Bos primigenius* general account, KAZEZF 565.—*B. priscus* paleolithic age in N. Caucasus p. 309, GROMOVA 407.—*B. longifrons* a dwarf race in C. Europe, SCHULZE 976.

†*Bubalus iselini* sp. n. U. Pliocene Italy, STEHLIN Ecl. geol. helv. 27 p. 407 figs.

Capra ibex remains found in Valais in 1930, MARIETAN 717.—*C. nubiana* in Eritrea desc. skin and horns, DE BEAUX 72; Range and habits in Egypt, RUSSELL 932.

†*Capra camburgensis* sp. n. Diluvial Thuringia, TOEPFFER Palaeont. Z. 16 p. 279 figs.

Capricornis sumatrensis observations in captivity, MOHR 743.

Cephalophus fosteri p. 383 Mt. Elgon, *C. hooki* p. 384 Mt. Kenya spp. n., ST. LEGER Ann. Mag. N.H. (10) 14.

†*Cephalophus parvus* sp. n. Pleistocene Taungs S. Afr., BROOM S. Afr. J. Sci. 31 p. 477 fig.

†*Hippotragus leucophaeus* addt. information photo, RENSHAW 884.

Matschiea a good genus for *Gazella granti* characters, KNOTTNERUS-MEYER 592.

†*Oioceros* (?) *grangeri* p. 4, *O.* (?) *noverca* p. 16 spp. n. U. Miocene Mongolia, PILGRIM Amer. Mus. Nov. 716.

Oryx leucoryx latipes subsp. n. S. Arabia, POCOCK Ann. Mag. N.H. (10) 14 p. 636.

Ovibos moschatus range and habits in Mackenzie, HORNEY 504.

†*Ovibos moschatus* distrib., osteology, affinities, REYNOLDS 885.

Ovis the wild Sheep in the Vienna Zoo, ANTONIUS 32.—*O.* "dom." embryology and physiology of reproduction, CLARK 210; GRANT 389; Cytology of corpora lutea, WARBRITTON 1138; Pregnancy effects on blood, JOSLAND 557; Yield and composition of milk, PEIRCE 834.—*O. ammon poli* present distr. and status, GILLAN 378.—*O. vignei cycloceros* and the origin of the domestic race, v. STEGMANN 1032.—*O. arkal* as the origin of domestic race, v. STEGMANN 1033.

†*Palaeotragiscus longiceps* gen. et sp. n. (Neotraginae) Pleistocene Taungs, S. Afr., BROOM S. Afr. J. Sci. 31 p. 477 figs.

†*Parmularius* gen. n. for genotype *P. altidens* sp. n. Pleistocene Tanganyika Terr., HORWOOD Ann. Mag. N.H. (10), 14 p. 550.

†*Puliphaenoides* gen. n. for genotype *P. africanus* sp. n. Pleistocene Tanganyika Terr., HORWOOD Ann. Mag. N.H. (10) 14 p. 549.

†*Saiga tartarica* in moraine clay, Denmark, DEGERBØL 257.

Stigmoceros critical notes on the spp. and races of Matchie and on skull variation, ZUKOVSKY 1209.

Taurotragus oryx 2 hybrids photos, BOULINEAU 126.

Tragelaphus scriptus in Nigeria note col. pl., C—158.—*T. spekei* habits and effects of environment in Sesse Is., CARPENTER 173.

ORDER RODENTIA.

A popular and illustrated account of Rodents in general, SANBORN 943.

Rodents of Russia (Europe and Asia), VINOGRADOV 1122.

Rodents of the Minussinsk district, Siberia, ZVEREV 1212.

The Rodents of Kazakhstan (in Russian), BELJAEV 80.

Homology of the presemimembranosus muscle in Rodents, HILL 487.

The white blood cells and the nictitating gland and eyelid in Rodents, LOEWENTHAL 675, 676.

The organ of Jacobson in land- and water-Rodents and suggestions as to its function, LAUTENSCHLAGER 638.

Phylogeny of Rodent molars, FRIANT 357.

Rodents and other Mammals as agents of fertilization of flowers, PORSCH 871.

Colouration of desert Rodents in New Mexico, BENSON 91.

Mass destruction of small Rodents in Volyně, ŽELÍZKO 1191.

INCERT. SED.

†*Melissiodon* recent finds, SCHAUB 951.

OCHOTONIDAE.

General notes on Ochotonidae in Japanese, KISHIDA 577.

Ochotona princeps tutelata subsp. n. Nevada, HALL Proc. Biol. Soc. 47 p. 103.

LEPORIDAE.

Phylogeny of the Hares based chiefly on molar dentition, KORMOS 603.

Periodic population fluctuations in Hares and Rabbits in Gt. Britain, MIDDLETON 730.

†*Alilepus hungaricus* sp. n. Pontian Hungary, KORMOS Allat. Kozlem. 31 p. 74 fig.—*A. ? vagus* sp. n. Pliocene Idaho, GAZIN Proc. U.S. Nat. Mus. 83 p. 119 figs.

†*Hypolagus brachygnathus* sp. n. U. Pliocene Hungary, KORMOS Allat. Kozlem. 31 p. 75 figs.—*H. nr. vetus* descr. fig. p. 112, *H. limnetus* p. 114, *H. furlongi* p. 118 subsp. n. figs. Pliocene Idaho, GAZIN Proc. U.S. Nat. Mus. 83.

Lepus timidus, *L. europaeus* status and habits in N. Uist, BEVERIDGE 97.—*L. europaeus turcomanus* subsp. n. Karakum desert, Aral Lake, HEPTNER Folia zool. hydrob. 6 p. 21.—*L. americanus* cyclical fluctuations in Canada, ELTON 303.—*L. arcticus porsildi* p. 83, *L. a. persimilis* p. 84 both Greenland, *L. a. monstrabilis* Ellesmere Land, *L. a. andersoni* Cape Barrow, N.W. Terr. p. 85 subsp. n., NELSON Proc. Biol. Soc. 47.—*L. bairdi oregonus* subsp. n. Oregon with note on habits, ORR J. Mammal. 15 p. 152.—*L. alleni*, *L. californicus* habits and economics in Arizona, VORHIES & TAYLOR 1126.

†*Lepus variabilis* remains in Bohemia descr. fig. p. 28, LIEBUS 659.

†*Mytonolagus* gen. n. (Leporidae) for type *M. petersoni* sp. n. Eocene Utah, BURKE Ann. Carnegie Mus. 23 p. 400 figs.

†*Pliolagus beremendensis* gen. et sp. n. U. Pliocene Hungary, KORMOS Allat. Kozlem. 31 pp. 74, 77 figs.

Sylvilagus floridanus mearnsi with horny outgrowth on face fig., COUCH 225; With three hind legs, wild-caught, MURIE 762.

CAVIIDAE.

Cavia early stages of development, MACLAREN & BRYCE 703; Repair of uterus after parturition, NICOL 791; Parasitized by *Psoroptes*, BAER & BROCHER 46.

HYDROCHOERIDAE.

Hydrochoerus capybara the veins of the liver, STARK 1031.

†*Nechoerus magnus* dentition and tooth structure figs., RUSCONI 924.

†*Xenohydrochoerus ballesterensis* gen. et sp. n. Pliocene Argentina, RUSCONI An. Soc. cient. argent. 117 p. 21 figs.

AGOUTIDAE (DASYPROCTIDAE).

Agouti paca ontogeny of molars figs., RUSCONI 929.

CASTOROIDIDAE.

†*Amblyrhiza* on skulls from St. Martin W.I. with discussion of affinities and distribution, SCHREUDER 971.

EUMEGAMYIDAE.

†*Diaphoromys flegi* sp. n. Pliocene Argentina, RUSCONI Rev. chil. Hist. nat. 38 p. 104 figs.

†*Tetrastylus angustidens* sp. n. Pliocene Argentina, RUSCONI An. Soc. cient. argent. 117 p. 179 fig. molar.

LAGOSTOMIIDAE (VISCACIIDAE).

Chinchilla list of spp. distr. economics and general habits, PRELL 873; Revision, taxonomic and other notes, *C. villegera* nom. n. pro *C. lanigera* (auct.) p. 100, PRELL 874; Taxonomic and nomencl. notes and identification of Molina's *Mus laniger*, PRELL 875.

†*Lagostomopsis aznarezi* sp. n. Pliocene Uruguay, RUSCONI An. Mus. Montevideo (2) 4 206 p. 9 figs.

OCTODONTIDAE.

Ctenodactylus gundi uterine changes and oestrous, LANGE 634.

Ctenomys list of S. American spp. and their ranges, RUSCONI 925.—*C. porteousi australis* subsp. n. Prov. B. Aires, RUSCONI Rev. chil. Hist. nat. 38 p. 108.

†*Ctenomys* cf. *intermedius* in ? Pliocene Argentina descr. fig., RUSCONI 926.

†*Geocapromys ingrahami irrectus* p. 190, *G. i. abaconis* p. 191 subspp. n. Bahama caves, LAWRENCE Occ. Pap. Boston Soc. N.H. 8.

Myocastor coypu general account, BOURDELLE 130; Supposed fish-eating habits, DENNLER 262; Arterial supply of mammary gland, LOCCHI & ERHART 670; Addt. notes on anatomy, NAGLIERI 768; Structure of pelt, LICHT 657.

Pectinator spekei legerae subsp. n. Italian Somali, DE BEAUX Atti Soc. ital. 73 p. 293.

Proechimys semispinosus myology, panniculus carnosus, ENDERS 308.

PEDETIDAE.

†*Pedetes gracilis* sp. n. Pleistocene Taungs S. Afr., BROOM S. Afr. J. Sci. 31 p. 476 figs.

JACULIDAE (DIPODIDAE).

Allactaga and *Alactagulus* review of nomenclature, synonymy and revision of spp., CHAWORTH-MUSTERS 199.

Allactaga elater races discussed p. 17, *A. e. strandi* subsp. n. Transcaspiian p. 19, HEPTNER Folia zool. hydrob. 6.

Sciortopoda telum turovi subsp. n. Don Steppe, S.E. Russia, HEPTNER Folia zool. hydrob. 6 p. 19.

Sicista subtilis, *S. betulina* revision and rearrangement of races and nomenclature, CHAWORTH-MUSTERS 199.—*S. montana strandi* subsp. n. Caucasus, FORMOZOW Folia zool. hydrob. Riga 3 1931 p. 79.

Zapus and *Napaeozapus* life history and habits, SHELDON 995.

Zapus princeps revision of Idaho races, *Z. p. idahoensis* subsp. n. Idaho and note on Bt. Columbia races, DAVIS J. Mammal. 15 p. 221.—*Z. l. luteus* in Arizona extension of range p. 55, HALL & DAVIS 424.—*Z. h. hudsonius* habits of young in captivity, IVOR 533.

BATHYERGIDAE.

†*Gypsorhynchus darti* gen. et sp. n. Pleistocene Taungs S. Afr., BROOM S. Afr. J. Sci. 31 p. 474 figs.

Heterocephalus glaber scortecii subsp. n. Italian Somali, DE BEAUX Atti Soc. ital. 73 p. 283 figs. skulls.

HETEROMYIDAE.

Dipodomys merriami vulcani subsp. n. Arizona, BENSON Proc. Biol. Soc. 47 p. 181.—*D. ingens* burrowing and storing habits, SHAW 994.—*D. nibratoides exilis* rediscovery and note on status and affinities, CULBERTSON 231.

Perognathus flavus sonoriensis subsp. n. Sonora Mex., NELSON & GOLDMAN J. Wash. Acad. 24 p. 267.—*P. intermedius crinitus* p. 199, *P. i. umbrosus* p. 200 subspp. n. Arizona, BENSON Proc. Biol. Soc. 47.—*P. i. pinacate* subsp. n. Sonora, Mexico, BLOSSOM Occ. Pap. Mus. Zool. Univ. Mich. 273 p. 4.

ISCHYROMIDAE.

†*Adjidaumo douglassi* sp. n. Oligocene N. Dakota, BURKE Ann. Carnegie Mus. 23 p. 395 figs.

†*Leptotomus kayi* sp. n. Eocene Utah, BURKE Ann. Carnegie Mus. 23 p. 391 fig.

†*Paradjidaumo* gen. n. for genotype *Eumys minor* Douglas, also *P. nasutus* (Cope) descr. figs., BURKE Ann. Carnegie Mus. 23 p. 396 figs.

†*Protadjidaumo* gen. n. (Adjidaumidae) for genotype *P. typus* sp. n. Oligocene Utah, BURKE Ann. Carnegie Mus. 23 p. 394 fig.

GEOMYIDAE.

Cratogeomys revision of species and races p. 136, *C. castanops perplanus* Texas p. 136, *C. c. lacrimalis* New Mexico p. 137, *C. c. hirtus* New Mexico p. 138, *C. c. angusticeps* Texas p. 139, *C. c. consitus* Chihuahua Mex. p. 140, *C. c. tamaulipensis* Tamaul pas Mex. p. 141, *C. c. convexus* p. 142, *C. c. excelsus* p. 143, *C. c. subsimus* p. 144, *C. c. subnubilus* p. 145 all Coahuila Mex., *C. c. planifrons* Nuevo Leon p. 146, *C. c. rubellus* p. 147, *C. c. peridoneus* p. 148 both S. Luis Potosi, *C. merriami saccharalis* Puebla p. 149, *C. m. irolonis* Hidalgo p. 150, *C. fulvescens subluteus* Vera Cruz p. 152 all subsp. n., NELSON & GOLDMAN Proc. Biol. Soc. 47.

Thomomys variation and mutation in wild state in various Californian spp., STORER & GREGORY 1051.—*Thomomys* review of Mexican spp. and subsp. p. 106, *T. umbrinus albigularis* Hidalgo p. 106, *T. u. martinensis* Puebla p. 108, *T. u. tolucae*, *T. u. vulcanius* Mexico State p. 109, *T. u. supernus* Guanajuato p. 110, *T. u. potosinus*, *T. u. atrodorsalis* S. Luis Potosi p. 111, *T. u. zacatecae*, *T. u. enixus* Zacatecas p. 112, *T. u. crassidens* W. Zacatecas p. 113, *T. u. chihuahuae* Chihuahua, *T. u. durangi* Durango p. 114, *T. u. evecus* Durango, *T. u. madrensis* Chihuahua p. 115, *T. u. caliginosus* Chihuahua p. 116, *T. u. chiricahuae* Arizona p. 117, *T. u. sonoriensis* Sonora, *T. u. eximius* Sinoloa p. 118, *T. u. musculus*, *T. u. extimus* Nayarit p. 119, *T. similis similus* Sonora p. 120, *T. s. parviceps* Durango p. 121, *T. bottae divergens* Sonora p. 122, *T. b. convergens* Sonora p. 123 all subsp. n., NELSON & GOLDMAN J. Mammal. 15.—*T. bottae* descr. new-born

young, HILL 488.—*T. b. saxatilis* subsp. n. Lassen Co. Calif., GRINNELL Proc. Biol. Soc. 47 p. 193.—*T. b. trumbullensis* subsp. n. Arizona, HALL & DAVIS Proc. Biol. Soc. 47 p. 51.—*T. b. vanrossemi* subsp. n. Sonora Mexico, HUEY Trans. S. Diego N.H. Soc. 8 p. 1.—*T. quadratus* note on Nevada races p. 27, BORELL & ELLIS 120.—*T. g. monoensis* subsp. n. California, HUEY Trans. S. Diego Soc. N.H. 7 p. 373.—*T. burti quercinus* p. 150, *T. b. proximus* p. 151 subsp. n. Arizona, BURT & CAMPBELL J. Mammal. 15.

†*Thomomys gidleyi* sp. n. Pliocene Idaho, WILSON Pub. Carnegie Instn. no. 440 p. 122 figs.

SPALACIDAE.

Spalax hungaricus descr. habits, economics, BÉLA 77; Range in Hungary, VÁSÁRHELY 1110.—*S. monticola labami* habits in captivity, NIETHAMMER & KUMMERLÖWE 793.

†*Spalax fossilis* sp. n. Post-tertiary Bukovina, SÄHLEANU Bul. Fac. Sti. Cernauti 6 p. 145 figs.

MURIDAE.

A review of the genera and species of the Cricetinae of the Palaearctic region, ARGYROPULO 37.

Javanese Rats, a further critical note, DE RAADT 877.

On the sebaceous glands of the external ear of Murids, ROLAND 906.

Parasites of Mice in Lewis, Hebrides, ELTON 304.

Acomys bovonei sp. n. S. Somali, DE BEAUX Atti. Soc. ital. 73 p. 280 figs. skulls.

Aethomys walimbai hintoni p. 7, *A. chrysophilus dollmani* p. 8 subsp. n. Katanga, B. Congo, HATT Amer. Mus. Nov. 708.

Alticola altaica sp. n. Altai Siberia, VINOGRADOW 1122.—*A. gracilis*, *A. longicauda*, *A. villosa* spp. n. Tian Shan, KASHKAROV Trans. Sci. Soc. Turkist. 1 1923 pp. 203, 220 figs.

Apodemus sylvaticus spadix subsp. n. Thuringia, FRITSCH Z. Säugetierk. 9 p. 435.

Arvicantis niloticus naso subsp. n. S. Arabia, POCKOCK Ann. Mag. N.H. (10) 14 p. 636.

Arvicola terrestris amphibius economic control in France, CHAPPELLIER 188.—*A. terrestris cubanensis* subsp. n. Kuban S.E. Russia, OGNEFF & NOVIKOFF 800.—*A. scherman* structure and changes in flank-glands figs., VRTIŠ 1129.

†*Arvicola mosbachensis* p. 109, *A. greenii* p. 111 descr. figs., HELLER 458.

Asiocricetus gen. n. p. 148 for type *A. bampensis* sp. n. p. 150, also *A. yamashinai* sp. n. p. 156 both Corea, KISHIDA Lansania 1 1929.

†*Baranomys löczyi* gen. et sp. n. (near *Sigmodon*?) from U. Pliocene of Hungary and discussion of affinities, KORMOS Allat. Kozlem. 30 p. 48 3 figs,

Calomyscus mystax sp. n. Transcaspiya KASHKAROV Trans. Sci. Soc. Turkest. 2 1925 pp. 43, 56 figs.

Chionomys nivalis neujukovi subsp. n. Caucasus, FORMOZOV Folia zool. hydrob. Riga 3 1931 p. 51.—*C. ulpius* recorded for Poland, FUDAKOWSKI 363.

Chlethrionomys glareolus habits, LINDNER 662.—*C. limitis* variation in palatal region p. 55, HALL & DAVIS 424.

Cricetomys gambianus langi subsp. n. Uele, Belgian Congo, HATT Amer. Mus. Nov. 708 p. 5.

Cricetulus triton nestor note on status and dimensions p. 231, KURODA 629.—*C. (Allocrietulus) eversmanni beljaevi* subsp. n. Saissan, Russian Asia, ARGYROPULO Trav. Inst. Zool. Acad. Sci. Leningrad 1 p. 245 [probably publ. in Nov. also in Zs. Säugetierk. 3 Dec. 1933].

Cricetus cricetus structure of lateral glands and seasonal changes, VRTIŠ 1130; An umbilical glandular organ, VRTIŠ 1131.—Present and economic status and present and past distribution in C. Europe, WERTH 1153; Distr. of the melanistic variation in Russia and its relations to the normal race, KIRIKOW 576.—*C. c. babylonicus* Nehr. 1903 = *C. c. stauropolicus* Ognev 1907, WEPNER 1155.—*C. c. fuscidorcis* subsp. n. Semiretsch, ARGYROPULO Trav. Inst. Zool. Acad. Sci. Leningrad 1 p. 235.—*C. auratus* breeding and rearing habits in captivity, MENAHEM 725; Breeding, growth and other habits in captivity, BRUCE & HINDLE 145.

Dasymys nudipes edsoni subsp. n. Middle Congo, HATT Amer. Mus. Nov. 708 p. 6.

Dendromus haymani sp. n. Mbogo, Belgian Congo, HATT Amer. Mus. Nov. 708 p. 13.

Epimys rattus as a disease carrier, TAYLOR 1074.

Fiber zibethicus introduction, present distr. and future status in British Isles, WARWICK 1141; Habits and economic control in France, CHAPPELLIER 187, 188, 189 [see also under *Ondatra*].

Gerbillus dunni descr. dimensions p. 275, DE BEAUX 73.

Graomys hypogaeus sp. n. Catamarca, Argentina, CARRERA Notas Prelim. Mus. La Plata 3 p. 124 fig. molars.

Gunomys kok, *Millardia meltada*, *Tatera indica* economic and burrowing habits in India, BHIDE 98.

Lagurus curtatus intermedius systematic status in Nevada p. 35, BORELL & ELLIS 120.

Leggada booduga fulvidiventris descr. and note on nomenclature, PHILLIPS 843.

Lemmus amurensis ognevi subsp. n. Werchojansk Mts. Siberia, VINOGRADOW 1122.

Lophuromys luteogaster sp. n. Ituri, Belgian Congo, HATT Amer. Mus. Nov. 708 p. 3.

Mastacomys fuscus recorded from Victoria, BRAZENOR 139; Surviving in Tasmania descr. figs., FINLAYSON 324.

Meriones tamariscinus ciscaucasicus and other S.E. Russian forms descr. distr. figs. p. 213, HEPTNER 462.

Mesocricetus newtoni range discussed, v. BOETTICHER 116.

Micromys minutus subobscurus subsp. n. Germany, FRITSCH Z. Säugetierk. 9 p. 431.

Microtus ecological relations to its chief predator *Otus otus*, TINBERGEN 1086; Hanging in tree probably killed by a Shrike, SCHAEFFER 949.—*M. agrestis* destruction by toxoplasma disease, FINDLAY & MIDDLETON 323; Technique for keeping and breeding in captivity, RANSON 879.—*M. arvalis* structure and classification of the hair and fur, ŠULO 1061.—*M. ratticeps* in

Mecklenburg, KUHK 626.—*M. gravesi* sp. n. Kazakstan (Kirghiz country), GOODWIN Amer. Mus. Nov. no. 742 p. 2.—*M. hypoboreus* sp. n. Werchojansk Mts. Siberia, VINOGRADOV 1122.—*M. (Stenocranius) eversmanni castaneus* subsp. n. W. Tian-Shan, KASHKAROV Trans. Sci. Soc. Turkest. 1 1923 p. 196 figs.—*M. montebelli brevicauda* subsp. n. Sado I. off Japan, TOKUDA Annot. zool. jap. 14 p. 236 figs. skull.—*M. i. innuitus* a melanistic ex. from Alaska, MURIE 763.—*M. mexicanus navaho* subsp. n. Utah, BENSON Proc. Biol. Soc. 47 p. 49.

†*Microtus subarvalis* sp. n. Diluvial nr. Mainz, HELLER Notizbl. Ver. Erdk. 5 no. 14 p. 113 figs.

†*Mimomys chinensis* sp. n. Pliocene China, KORMOS Trav. Lab. Géol. Lyon 24 mém. 20 p. 6.—*M. primus* again recorded in Pliocene, California, HESSE 479.—*M. (Cosomys) primus* descr. revision figs. p. 126, *M. parvus* sp. n. Pliocene Idaho p. 128 figs., WILSON Pub. Carnegie Instn. no. 440.

Mus ossification centres, MENG 726; The plague-rats of Chile, MACCHIAVELLO 699.—*M. rattus* status in Liverpool Port, HARDY 439; Origin of the three African races, SCHWARZ 981; Ovulation and reproduction, PUJULA 876; Female's occasional repugnance to male, HAIN 419.—*M. musculus gentilulus* note p. 278, DE BEAUX 73.—*M. m. nogaiorum* subsp. n. Cis-Caucasia Russia, HEPTNER Folia zool. hydrob. 6 p. 23.—*M. bactrianus yamashinai* subsp. n. Korea, KURODA J. Mammal. 15 p. 234.—*M. spicilegus germanicus* and other races described by Noack, identified with well-known races, SCHWARZ 983.—*M. decaryi* sp. n. nr. Tamatave Madagascar, GRANDIDIER Bull. Mus. Paris 6 p. 478 figs.

Neotoma albigula brevicauda subsp. n. Utah, DURBANT J. Mammal. 15 p. 65 fig. skull.—*N. lepida egressa* p. 109, *N. fuscipes martirensis* p. 110 subsp. n. L. California figs. skulls, ORR Proc. Biol. Soc. 47.—*N. auripila* sp. n. Arizona, BLOSSOM Occ. Pap. Mus. Zool. Univ. Mich. 273 p. 1.—*N. floridana haematoreia* subsp. n. Georgia U.S.A., HOWELL Proc. Acad. Philad. 86 p. 403.

Notomys on the glandular gular pouch, BOURNE 131; Revision p. 77, *N. mitchelli alutacea* subsp. n. W.

Australia p. 79 figs., BRAZENOR Mem. Nat. Mus. Melbourne no. 8.—*N. megalotis* nom. n. for *N. macrotis* Thos. invalid, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 84.

Ondatra zibethicus cinnamominus measurements of skull and long bones, LATIMER 636 [see also under *Fiber*].

†*Ondatra idahoensis idahoensis* p. 132, *O. i. minor* p. 135 sp. et subsp. n. figs. Pliocene Idaho, WILSON Pub. Carnegie Instn. no. 440.

Oryzomys couesi lambi subsp. n. Sonora Mexico, BURT Proc. Biol. Soc. 47 p. 107.

Otomys tropicalis faradjius subsp. n. Uele distr. Belgian Congo, HATT Amer. Mus. Nov. 708 p. 1.

Pallasiomys erythrourus caucasicus p. 185, *P. meridianus nogalorum* p. 201 descr. distr. figs. etc., HEPTNER 462.

Peromyscus maniculatus genetic studies, HUESTIS & BARTO 515.—*P. m. rufinus* remarks on races p. 263, DOUTT 273.—*P. maniculatus artemisiae* post-natal growth and development, SVIHLA 1066.—*P. californicus* review of races p. 210, *P. c. benitoensis* p. 216, *P. c. mariposae* p. 217 both California subsp. n., GRINNELL & ORR J. Mammal. 15.—*P. slevini* of Catalina I. subgeneric status, BURT 150.

Phodopus sungorus races taxonomy and type localities, CHAWORTH-MUSTERS 198.

Pitimys parvulus exact type locality in Florida, HOWELL 509.

†*Pitymys schmidtgeni* sp. nov. Diluvial nr. Mainz, HELLER Notizbl. Ver. Erdk. 5 no. 14 p. 112 figs.

Podanomys ariston sp. n. South Australia, BRAZENOR Mem. Nat. Mus. Melbourne no. 8 p. 84 figs.

Praomys jacksoni minor p. 11, *P. tullbergi lukolelae* p. 13 subsp. n. C. Belgian Congo, HATT Amer. Mus. Nov. no. 708.

†*Prosiphneus eriksoni* development of molars and comparison with *Siphneus*, FRIANT 355.

Pseudohydromys gen. n. for genotype *P. murinus* sp. n. Brit. New Guinea, RÜMMLER Z. Säugetierk. 9 p. 47.

Pseudomys (Gyomys) fumeus sp. n.
Victoria, BRAZENOR Mem. Nat. Mus.
Melbourne no. 8 p. 158 figs.

Rattus note on Roumanian spp.,
MUNTIU & VASILIU 761.—*R. rattus*
review and discussion of the races
found in the Malay Peninsula, CHASEN
192.—*R. surifer solaris* p. 170. *R.*
lepturus maculipectus p. 173. *R. bukit*
lepturoides p. 174 all Java. *R. concolor*
manoquarius N.W. New Guinea
subsp. nov.. *R. bartelsi tjibuniensis*
note p. 177. SODY Natuark. Tijdschr.
Ned.-Ind. 94.—*R. mülleri otiosus* subsp. n.
N. Borneo, CHASEN Bull. Raffles Mus.
no. 9 p. 93.—*R. concolor ephippium*
no colour variation p. 195, CHASEN
194.

Sigmodon hispidus races in S.W.
U.S.A. and their distr. map p. 53,
HALL & DAVIS 424.

Stomatomys pratensis kasaicus subsp. n.
Kasai Belgian Congo, HATT Amer.
Mus. Nov. 708 p. 15.

†*Synaptomys vetus* sp. n. Pliocene
Idaho, WILSON Pub. Carnegie Instn.
no. 440 p. 124 figs.

Tatera suschkini sp. n. Turkestan,
KASHKAROV Trans. Sci. Soc. Turkestan
2 1925 pp. 51, 56 figs.

Taterillus emini anthonyi subsp. n.
Anglo-Egyptian Sudan, HATT Amer.
Mus. Nov. 708 p. 2 fig.

Thamnomys venustus schoutedeni Ituri
p. 9. *T. kempi major* Kivu p. 10.
T. (Grammomys) surdaster callithrix
Upper Uele p. 11 subsp. n., HATT
Amer. Mus. Nov. no. 708.

MYOXIDAE.

Eliomys lusitanicus extension of
range, MORALES-AGACINO 750.

Muscardinus avellanarius field notes
and habits, VÁSÁRHELYI 1112.

CASTORIDAE.

†*Amblycastor tungurensis* sp. n.
Tung Gur (Miocene) beds Mongolia,
STIRTON Amer. Mus. Nov. no. 694
p. 2 figs.

Castor microscopic structure of fur,
RODE 897.—*C. fiber* ventilation of
winter lodge, SALVESEN 941.—*C. ca-*
nadensis popular sketches photos,
CHAPMAN 191.

†*Castor fiber* lower jaw Quaternary
Czecho-Slovakia descr. figs. p. 28,
LIEBUS 658.

SCIURIDAE.

Early stages in the embryology of
some Sciurids, *Citellus*, *Tamias*, etc.,
SCHOOLEY, 936.

The colour sense of the Squirrels,
LOCHER 671.

Ammospermophilus harrisi races and
distr. discussed p. 256, DOUTT 273.

Arctomys on the testis of the
hibernating individual, COURRIER &
GROS 226.—*A. menszibieri* sp. n. W.
Tianshan, KASHKAROV Trans. Sci. Soc.
Turkestan 2 1925 pp. 47, 56 figs.

†*Arctomys primigenius* in loess
deposits in Germany figs., FLORIAN
334.

Citellus species and their ranges in
the Bucovina, CEROVSCHI 186; Review
of Roumanian spp. and races with
distr. and habits, *C. citellus isticus*
subsp. n. p. 106 Roumania, CALINESCU
Z. Sauget. 9 p. 87 figs.—*C. citellus* range
and history in Germany and notes
on other spp., WERTH 1159.—*C.*
pygmaeus ecology in plague-ridden
Kasakstan, VOLCANESKII & FURSSAJEV
1125.—*C. pygmaeus nikolskii* subsp. n.
Aral Lake shore, HEPTNER Folia
zool. hydrob. 6 p. 20.—*C. musicus*
relictus subsp. n. W. Tian Shan,
KASHKAROV Trans. Sci. Soc. Turkest.
1 1923 pp. 185, 220 figs.—*C. tri-*
decemlineatus control of reproductive
activity, MOORE and others 748;
Action of adrenal, ZALESKY 1190;
Sexual cycle in captivity, JOHNSON &
others 551; Oestrous and reproductive
cycle, FOSTER 346.—*C. franklinii*
status and distr. in Indiana, LYON
693.—*C. tereticaudus neglectus* on the
race in S. Arizona status and taxonomy
p. 255, DOUTT 273.

Eoglaucomys fimbriatus fimbriatus
and *E. f. baberi* type localities and
distinctions, CHAWORTH-MUSTERS 200.

Eutamias asiaticus uthensis (Pallas)
type locality and taxonomy, CHAWORTH-
MUSTERS 197.—*E. minimus scrutator*
subsp. n. Mono Co. California, HALL
& HATFIELD Univ. Calif. Pub. Zool.
40 p. 321 map.—*E. dorsalis utahensis*,
field observations, DAVIS 249.

Glaucomyx sabrinus griseifrons subsp. n. Alaska, HOWELL J. Mamm. 15 p. 64.

Lariscus insignis saturatus subsp. n. Rhio Archipelago E. Indies, CHASEN Bull. Raffles Mus. no. 9 p. 99.

Marmota m. monax abnormal skulls and dentition, CAHN 164.—*M. monax rufescens* breeding and other habits including hibernation, economics, etc., HAMILTON 480.—*M. caligata* distr. of races in N.W. America, ANDERSON 19.—*M. c. broweri* subsp. n. N. Alaska, HALL & GILMORE Canad. Field Nat. 1934 p. 57 fig. skull map.—*M. flaviventris* note on the Nevada race p. 23, BORELL & ELLIS 120.—*M. f. notioros* subsp. n. Wet Mts. Colorado, WARREN J. Mammal. 15 p. 62.

†*Marmota marmota* in a cave nr. Cividale, N. Italy, LEONARDI 651.

Otospermophilus douglasii burrowing habits figs., EDGE 289.

Petaurista caniceps list of races and their synonymy, CHAWORTH-MUSTERS 200.—*P. punctatus banksi* subsp. n. Kinabalu Borneo, CHASEN Bull. Raffles Mus. no. 8 p. 194.

Sciurus notes on Dutch E. Indian spp. p. 8, FRECHKOP 353.—*S. vulgaris* age determination from skulls, NAUMOW 774; Ecological relations to Crossbill and Great Spotted Woodpecker in the great forests of Russia, FORMOZOV 337.—*S. prevosti banksi* subsp. n. Baram distr. Borneo, CHASEN Bull. Raffles Mus. no. 8 p. 195.—*S. griseus anthonyi* feeding on Eucalyptus seeds, LITTLE 666.—*S. carolinensis* now acclimatized in Victoria habits, BARRETT 58.—*S. hudsonicus loquax* distr. in Indiana, LYON 696.

†*Sciurus* sp. a fossil puzzle from 1718 identified, LIEBUS 660.

Spermophilopsis leptodactylus structure of fur and moult, LAWROW & NAUMOW 643.

Spermophilus leucostrictus Brandt taxonomic note and type loc., CHAWORTH-MUSTERS 197.

Tamias striatus breeding season in Indiana, SCHOOLEY 965.—*T. s. griseus* in Manitoba, GREEN 395.

Xerus rutilus dabagala and other races descr. notes p. 272, DE BRAUX 73.

THERIDOMYIDAE.

†*Issiodoromys* affinities discussed, should probably be placed in Theridomyidae, FRIANT 358.

ANOMALURIDAE.

A systematic review of the Anomaluridae, RÜMMLER 918.

ORDER CARNIVORA.

Pleistocene Carnivora of N. China, PEI 833.

Craniometry of Canidae and Felidae, DSCHAWACHISCHIOILI 275.

Myology of the neck in Carnivora, JAZUTA 544A.

HYAENODONTIDAE.

†*Hemipsalodon* note fig. p. 55, RUSSELL 931.

OXYCLAENIDAE.

†*Kopidodon* gen. n. (nr. *Paroxyclaenus*) for type *Cryptopithecus macrognathus* Wittich a new skull fragment discovered, a Creodont not a Primate figs., WEITZEL Notizbl. Ver. Erdk. 5 no. 14 p. 51.

†*Hyaenodon* skull and brain relief, KLINGHARDT 590.

MIIACIDAE.

†*Miacis* (?) *hookwayi* sp. n. U. Eocene, California, STOCK Proc. Nat. Acad. Sci. Wash. 20 p. 427 figs.

†*Tapocyon occidentalis* gen. et sp. n. (Miacidae) U. Eocene California, STOCK Proc. Nat. Acad. Sci. Wash. 20 p. 423 figs.

URSIDAE.

Dental variation in Bears, RODE 896.

Ailuropoda melanoleuca historical and general note photos, SOWERBY 1025; Note on range and localities, EDGAR 288; Dental caries, POHLE 863.

Ursus abdominal sympathetic system, JAYLE 544.—*U. arctos* field notes and observations in Kamchatka, BERGMAN 93; Observations in the Carpathians photos, BURZYŃSKI 154.—*U. arctos yesoensis* tooth succession, INUKAI & MUKASA 529.—*U. tibetanus* range

habits hunting in Assam etc., WOOD 1181, 1182.—*U. jessoensis* subsp. n.?, OGNEV Mammals E. Europe 2 1931 p. 104 fig.—*U. maritimus* age and growth, KOSTJAN 611; Growth, development and habits of juvenile in confinement, SCHNEIDER 963.

†*Ursus* origin, phylogeny and classification of fossil forms, MOTTL 759.—*U. spelaeus* dentition, MAIER 708; Palaeopathology; vertebrae, KUBACSKA 623; A fractured mandible, PALES 821; A fossil mended fractured penis bone, KUBACSKA 624; Gall or stomach stone described figs., EDINGER 290.—*U. arctos spelaeus* descr. in Diluvial beds Austria, EHRENBERG 296.—*U. angustidens* and other spp. notes figs. p. 45, PEI 833.

PROCYONIDAE.

The neopallium of the brain in the Procyonidae, ANTHONY & BOTAR 26.

†*Bassariscus ogallalae* sp. n. Pliocene Nebraska, HIBBARD Kansas Univ. Sci. Bull. 21 p. 273.

Nasua narica recorded in Arizona, TAYLOR 1075.

Procyon lotor habits of young in captivity, EULENBURG 316.

MUSTELIDAE.

Mustelidae of China etc., JAKOVLEFF 542.

The breeding habits and period of gestation, MALLNER 711.

A method of estimating numbers of Mustelidae in a hunting tract in Russia, JURGENSON 559.

Arctonyx collaris hoeveni in Sumatra, notes photo, JACOBSON 539.

†*Baranogale helbingi* gen. et sp. n. Pliocene Hungary, KORMOS Folia zool. hydrob. Riga 5 1934 p. 145 figs.

†*Gulo* sp. descr. fig. Pleistocene N. China p. 80, PEI 833.

Lutra general habits, UTZON 1109.—*L. lutra meridionalis* subsp. n., OGNEV, Mammals E. Europe 2 1931 p. 527.

†*Lutra melina* sp. n. Pleistocene N. China, PEI Palaeont. sinica (C) 8 p. 76 figs.

†*Luttravus* (?) *idahoensis* p. 137 *L. (?) cookii* p. 142 spp. n. figs. Pliocene Idaho, GAZIN J. Mammal. 15.

Martes flavigula borealis Radde 1862 is antedated by *M. [Riverra] aterrima* Pall. 1811 p. 24, HEPTNER 461.—*M. zibellina*, *M. martes* breeding habits, SCHMIDT 960.

Meles leptorhynchus talassicus p. 478, *M. meles heptneri* p. 775 subsp. n., OGNEV Mammals E. Europe 2 1931.

†*Meles* cf. *leucurus* descr. figs. p. 72, PEI 833.

Mustela foina, *M. martes* notes on feeding and breeding in captivity, JOFFICH 555.—*M. furio* physiology of reproduction, HAMMOND & WALTON 437; Early stages of embryonic development, HAMILTON 432; Effect of light and darkness on breeding, HILL & PARKES 439; Oestrous and irradiation, MARSHALL & BOWDEN 718.—*M. lutreola* in the Siebenbürgen, Roumania, EHIK 294; Nutritional anaemia, LAW & KENNEDY 640.—*M. lutreola hungarica* Hungary, *M. l. transsylvanica* Transsylvania subsp. n., EHIK Allat. Közlem. 29 p. 142.—*M. sibirica* note on races and economics in China and Manchuria, SOWERBY 1023.—*M. (Kolonomus) sibirica charbinensis* subsp. n. Manchuria, LOWKASHKIN China J. 20 p. 49 figs.—*M. alpinus* Gebler 1825 is antedated by *M. altaica* Pall. 1811 p. 24, HEPTNER 461.—*M. i. itatsi* on a partial albino, INUKAI 528.—*M. noveboracensis*, *M. cicognanii* general habits, moult, growth, economics, HAMILTON 429.—*M. viscosa allegheniensis* records in Indiana, LYON 695.

†*Mustela strandi* p. 153, *M. praenivalis* p. 154 spp. n. Pliocene Hungary figs., KORMOS Folia zool. hydrob. Riga 5.—*M. cf. sibirica* descr. fig. p. 83, PEI 833.

†*Pannonictis pilgrimi* sp. n. Pliocene Hungary, KORMOS Folia zool. hydrob. Riga 5 p. 131 figs.

†*Pliovormela* gen. n. for type *Mustela beremendensis* Petényi, KORMOS Folia zool. hydrob. 5 1934 p. 138 figs.

†*Putorius stromeri* sp. n. Pliocene Hungary, KORMOS Folia zool. hydrob. Riga 5 p. 148 figs.

†*Satherium* subg. n. for type *Lutra piscinaria* Leidy p. 144 figs., *L. (S.) ingens* sp. n. p. 147 figs. Pliocene Idaho, GAZIN J. Mammal. 15.

Taxidea taxus status and distrib. in Indiana, LYON 694; Present status in Ohio, MOSELEY 757.

CANIDAE.

Chinese and Mongolian Canidae in Tien Tsin Museum, JAKOVLEFF 541.

Critical notes on genera of S. American Canidae, OSGOOD 811.

Genetic studies on Dog-Wolf hybrids, ILIIN 527.

†*Amphicyon* aff. *crassidens* note p. 125, ASTRE 41.

Canis genetic significance of 3rd upper molar sometimes present, WOOD 1179.—*C.* "dom." on the South African race and their skulls, PETERS 840; Tooth anomalies in the Buenos Aires dogs, RUSCONI 923; Ossification of limb-bones, SCHAEFFER 948.—*C. lupus* date of last Irish Wolf, FISHER 328; The warning howl in Roumania, BOTEZAT 123; The penis bone fig., EHIK 293.—*C. l. arabs* subsp. n. S. Arabia, Pocock Ann. Mag. N.H. (10) 14 p. 636.—*C. latrans* winter food habits, SPERRY 1026.

†*Canis familiaris fossilis* in Dep. Ardennes, France, BENOIT 85.—*C. f. palustris*? in Bronze age deposit, Austria, PETERS 839.—*C. lupus variabilis* var. n. p. 13, *C. cyanoides* sp. n. p. 18, *C. (Nyctereutes) sinensis* discussion p. 23 all figs. Pleistocene N. China, PEI Palaeont. sinica (C) 8.

Cuon javanicus field notes in Java, APPELMAN 34.

†*Daphoenus canadensis*, *D. lambei* spp. n. Oligocene Saskatchewan, RUSSELL Trans. Canad. Inst. 20 p. 56.

†*Leucocyon lagopus* in Quaternary of Czechoslovakia descr. figs. p. 17, LIEBUS 658.

†*Lupus* aff. *suessi* descr. fig. p. 12, LIEBUS 659.

†*Mesocyon baileyi* sp. n. Oligocene California, STOCK Pub. Carnegie Instn. Washington no. 440 p. 32 figs.

†*Osteoborus* gen. n. for genotype *Hyaenognathus cyonoides* Martin and list of described species, STIRTON & VANDERHOOF Univ. Calif. Pub. Geol. 23 p. 175.

†*Pseudocynodictis* (?) *pavidus* sp. n. Oligocene California, STOCK Pub. Carnegie Instn. Washington no. 440 p. 31 figs.

†*Temnocyon* cf. *altigenis* descr. figs. p. 35, STOCK 1043.

Vulpes vulpes daurica subsp. n., OGNEV Mammals E. Europe 2 1931 p. 331.—*V. ruppelli sabaea* subsp. n. S. Arabia, Pocock Ann. Mag. N.H. (10) 14 p. 636.—*V. hoole* in New Territory Hong Kong photo, HERKLOTS 466.—*V. kiyomasai* sp. n. N.E. Corea, KISHIDA & MORI Lansania 1 1929 p. 82 fig.

†*Vulpes meridionalis* note fig. p. 13 LIEBUS 659.

HYAENIDAE.

†*Crocota pilgrimina* sp. n. Kurnool (Pleistocene) deposits India, RAO Half-Year J. Mysore Univ. 6 p. 101 figs.

Hyaena hyaena sultana subsp. n. S. Arabia, Pocock Ann. Mag. N.H. (10) 14 p. 636.

†*Hyaena spelaea* skull compared with recent forms, EHRENBURG 295.—*H. sinensis* descr. skeleton discussion figs. p. 91, *H. zdanskyi* sp. n. Pleistocene N. China p. 110, review of fossil Hyenas of China p. 118, PEI Palaeont. sinica (C) 8.

VIVERRIDAE.

Civet Cats of Hong Kong, HERKLOTS 467.

Arctogalidia bicolor first importation alive notes photo, ZUKOWSKY 1207.

Civettictis civetta schwarzi type loc. designated Zanzibar p. 261, SCHWARZ 980.

Genetta on races and species in Angola, ZUKOWSKY 1208.

Paguma review of spp. and races p. 326, *P. larvata neglecta* subsp. n. Naga Hills p. 334 fig. head, Pocock J. Bombay N.H. Soc. 37.—*P. larvata* revision and discussion of races in S.E. Asia p. 666, Pocock 861.

Paradoxurus review of spp. and races p. 172, *P. hermaphroditus scindiae* Gwalior p. 176, *P. h. laneus* Upper Punjab p. 178, *P. h. vellerosus* Kashmir p. 181 subsp. n. figs. skulls, Pocock J. Bombay N.H. Soc. 37.—*P. hermaphroditus* revision and discussion of races found in S.E. Asia p. 614, *P. h. cantor* subsp. n. Penang Island p. 635, Pocock P.Z.S. 1934.

FELIDAE.

The pterion bone of the skull in Felidae, ZAHARESCO 1189.

The identification of the "Tigerpferd" of Aldrovandus, GEYZA v. A. 376.

Cynailurus jubatus historical notes photos, GERMINY 374.

†*Dinictis felina* skull and brain relief, KLINGHARDT 590.

Erimalurus thinobius general account in Russian, BILKEVIČ 101.

Felis domestica osteology, ZIMMERMANN 1200; Coronary artery, blood-supply, ABRAMSON & others 3; Oestrous cycle, GROS 409; Without left kidney and uterus, EKMAN & SUOMALAINEN 301; Chromosome number, MATTHEY 724; Chromosome variation in different races, WINIWARTER 1173; A double monster, BAUDOUIN 67; A brain without a corpus callosum, KISSELEWA 583; White cats and deafness, LITTLE 665.—*F. leo* note on extinction of the Persian Lion, BECKER 75.—*F. leopardus*, *F. concolor* the abdominal sympathetic system, JAYLE 544.—*F. viverrina* in Java note photo, SODY 1021.—*F. bengalensis javanensis* habits in captivity and in Java, JACOBSON 540.—*F. catus* general account, USINGER 1108.—*F. silvestris* races, range and habits, POCOCK 860; Measurements of a large individual from Ross-shire, POCOCK 862.

†*Felis leo* in L. Pliocene of Austria, AMON 17.—*F. l. spelaea* remains in Poland, NIEZABITOWSKI 794.—*F. youngi* p. 133, *F. teilhardi* p. 140 spp. n. Pleistocene N. China and descr. figs. other forms, PEI Palaeont. sinica (C) 3.—*F. diastemata* probably an *Epimachairodus* discussion p. 399, SCHAUB 950.—*F. (Catolynx) chaus* in Quaternary beds nr. Stuttgart descr. figs., HELBIG 456.

†*Hoplophoneus belli* sp. n. Oligocene California, STOCK Pub. Carnegie Instn. 440 p. 37 figs.

Lynx lynx in Hungary, ÉHİK 294.

†*Machairodus* sp. teeth descr. figs. p. 124, PEI 833.—*M. cultridens?* in Pleistocene Japan, SHIKAMA 997.—*M. nihowanensis*, *M. nestianus* critical notes p. 402, SCHAUB 950.

†*Nimravus meridianus* sp. n. Oligocene California, STOCK Pub. Carnegie Instn. 440 p. 39 figs.

Panthera onca review of the recent and fossil forms in South America, *P. o. mesembrina* subsp. n. Post-tertiary S. Chile p. 25, CABRERA Notas Prelim. Mus. La Plata 2 p. 9 figs.

†*Pseudaelurus intrepidus* skull and dentition descr. figs., STOCK 1044.

ORDER PINNIPEDIA.

Biogeography of the Seals, v. BOETTCHER 115.

Facial myology of *Zalophus* and *Phoca*, HUBER 512.

Seal fishery in the Baltic in 1933, LÖNNBERG 682.

Conservation of Newfoundland Seals, TOWNSEND 1098.

OTARIDAE.

Arctocephalus antarcticus is probably the so-called Manatee of St. Helena, MORTENSEN 756.—*A. galapagoensis* history, measurements photos, TOWNSEND 1100.

Eumetopias californianus psychological experiments, SPINDLER & BLUHM 1028.

PHOCIDAE.

Cystophora cristata value of the catch off Greenland and economics, ISACHSEN 532.

Halichoerus grypus and *Phoca vitulina* distr. habits movements etc. on N. Cornwall coasts, STEVEN 1037.

Phoca caspica food habits, JOHANSEN 550.

ORDER INSECTIVORA.

The distribution, past and present, of the burrowing Insectivora and other groups, RIETH 889.

Phylogeny and the skull in the Insectivora, DRÄSEHE 274.

ADAPIDAE.

†*Notharctus robustior* Leidy antedates *N. (T.) crassus* Marsh, GAZIN 368.

APATEMYIDAE.

Revision and systematic status of the Apatemyidae of America, JEPSEN 548

†*Sinclairiella dakotensis* gen. et sp. n. Oligocene S. Dakota, JEPSEN Proc. Amer. Philos. Soc. 74 1934 p. 291 figs.

LEPTICIDAE.

†*Protictops alticuspidens* gen. et sp. n. Oligocene Utah, PETERSON Ann. Carnegie Mus. 23 p. 274 fig.

CENTETIDAE.

Microgale drouhardi p. 474, *M. parvula* p. 476 spp. n. Madagascar, GRANDIDIER Bull. Mus. Paris 6.

SOLENOTODONTIDAE.

†*Apternodus brevirostris* sp. n. Oligocene Wyoming, SCHLICKER Amer. Mus. Nov. no. 698 p. 1 figs.

TALPIDAE.

Talpa on the nature of the Sichelbein (= Os falciforme), NAUCK 771; Ecology, food habits and economics in S.W. Russia, KRYSCHTAL 622.—*T. europaea* burrowing habits photos, EBERLE 286.

SORICIDAE.

Systematics, morphology and geographical distribution of the Soricidae, OGNEV 799.

Crociodura coerulea development of the kidney ducts, MIJSBERG 732.—*C. russula*, *Sorex araneus* structure of eye, ROCHON-DUVIGNEAUD 895.—*C. zarudnyi* nom. n. pro *C. tatarianae* Ognev preocc. 1 p. 341; *C. pamirensis* sp. n. p. 366 figs., OGNEV Mammals E. Europe 1 1928.—*C. suaveolens mordeni* subsp. n. Kazakstan (Kirghiz country), GOODWIN Amer. Mus. Nov. no. 743 p. 1.—*C. dsinezumi quelpartis* subsp. n. Quelpart I, Korea p. 236, *C. yamashinai* p. 237, *C. neglecta* p. 238 spp. n. Korea, KURODA J. Mammal. 15.—*C. bolivari* sp. n. Rio de Oro, W. Afr., MORALES-AGACINO Bol. Soc. esp. H.N. 34 p. 93 fig.—*C. macarthuri* sp. n. Tana river Kenya, ST. LEGER Ann. Mag. N.H. (10) 13 p. 559.

Cryptotis parva habits and status in New York State, HAMILTON 431.

Neomys fodiens discussion of status and race in Northern Europe, LÖNNBERG 680; Recorded on Pladda I. off Arran now extinct, McWILLIAM 705.

Sorex pymaeus in Yorkshire, CLARKE 214.—*S. ussuriensis czekanovskii* subsp. n. Siberia, NAUMOFF 773.—*S. dukelskiae* sp. n., *S. ultimus midden-dorffi* subsp. n., *S. araneus jochanseni* subsp. n., *S. daphaenodon scaloni* subsp. n. and others all Siberia, OGNEFF 798.—*S. melanogenys* Hall = *S. v. monticola* Merr., HALL 422.—*S. palustris navigator* habits, SVIHLA 1067.—*S. p. brooksi* subsp. n. Vancouver I., ANDERSON Canad. Field Nat. 43 p. 134.

MIXODECTIDAE.

†*Craseops* gen. n. (Microsypsinae) for *C. sylvestris* sp. n. Eocene California, STOCK Proc. Nat. Acad. Wash. 20 p. 349 figs.

HYOPSODONTIDAE.

†*Hyopsodus egressus* sp. n. U. Eocene California, STOCK Proc. Nat. Acad. Wash. 20 p. 352 figs.

ERINACEIDAE.

Erinaceolus gen. n. for *Hemiechinus microtis*, OGNEV Mammals E. Europe 1 1928 p. 168.

Erinaceus body temperature and its regulation, HERTER 475; Seasonal variation in the male organs, ALLANSON 10; Psychological studies, HERTER 476; LISSMANN 664.—*E. europaeus* the reproductive cycle, structure of organs and physiology, DEANESLEY 254; Experiments with aenestrous individuals, ALLANSON & DEANESLEY 12; Range and habits, HERTER 474; Supposed races in Hungary, VASÁRHELY 1110.—*E. europaeus*, *E. roumanicus* and other European spp. ranges and taxonomic status, HERTER 472.

Echinorex gymnurus variation and races, CHASEN 195.

Hemiechinus auritus habits in captivity photo, BEHNIG 76.—*H. calligoni turkestanicus* p. 130, *H. albulus major* p. 135 subspp. n., OGNEV Mammals E. Europe 1 1928 figs.

Paraechinus dorsalis albiors subsp. n. S. Arabia, POCOCK Ann. Mag. N.H. (10) 14 p. 636.

TUPAIIDAE.

Tupaia facial muscles as compared with Lemurs and Marmosets, LIGHT-OLLER 661.

Tupaia tana nitida subsp. n. W. Sarawak, Borneo p. 198 and notes on other Bornean spp., CHASEN Bull. Raffles Mus. no. 8 p. 196.

ORDER CHEIROPTERA.

German Bats and their economics with photos, EISENTRAUT 297.

Bats of Honduras, TEST 1080.

Notes on Arizona Bats, CAMPBELL 170.

Long Island (N.Y.) bats, NICHOLS 789.

The oculomotor nerve in Bats, LUNA 689, 690.

The development of ova of hibernating Bats obtained artificially, HERLAUT 468.

Migrations of Bats, investigation by ringing, EISENTRAUT 298, 299.

Bats migrating in daylight, v. FINCK & SCHAEFER 322.

Hybernation sleep of Bats and the accompanying temperature regulation, EISENTRAUT 300.

Effects of low temperature on Bats, KALABUCHOV 561.

Methods for catching and marking Bats, GRIFFIN 403.

PHYLLOSTOMATIDAE.

Glossophaga placentation and embryonic status, HAMLETT 433.—*G. soricina* uterine bleeding, HAMLETT 434.

NOCTILIONIDAE.

Austronomus gen. n. for type *Nyctinomus australis atratus* Thomas, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 100 [no diagn.].

Dirias albiventer minor habits in Panama, DUNN 279.

EMBALLONURIDAE.

Emballonura sulcata on Ponape I. W. Pacific, TATE 1070.

MOLOSSIDAE.

Micronomus gen. n. for type *Molossus norfolkensis* Gray, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 100 [no diagn.].

Molossus placentation, HAMLETT 433.

RHINOPOMIDAE.

Rhinopoma cystops remarks p. 264, DE BEAUX 73.

VESPERTILIONIDAE.

Antrozous bunkerii sp. n. Kansas, HIBBARD J. Mammal. 15 p. 227.

Dasypterus intermedius recorded for Cuba, DE BEAUFORT 71.

Euderma maculatum osteological features, HALL 421.

Glauconycteris variegata phalaena desc. discussion p. 268, DE BEAUX 73.

Myotis nattereri status in Northumberland, BOLAM 117.—*M. daubentonii* breeding in Yorkshire, LONG-BOTTOM 677.—*M. mystacinus transcaspicus* subsp. n., OGNEV Mammals E. Europe 1 1928 p. 453.—*M. grisescens*, *M. sodalis* recent finds in Arkansas, BLACK 107.

Vespadelus gen. n. for type *Scotophilus pumilus* Gray, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 95 [no diagn.].

MEGADERMIDAE.

Megaderma lyra feeding on a *Pipistrelle* Bat, McCANN 698.

RHINOLOPHIDAE.

Rhinophyllotis gen. n. for type *Rhinolophus megaphyllus* Gray, IREDALE & TROUGHTON Mem. Austr. Mus. 6 p. 92 [no diagn.].

PTEROPIDAE.

Cynopterus sphinx sphinx and *C. s. ceylonensis* descr. distinctions and ranges in Ceylon, PHILLIPS 844.

Pteropus giganteus habits and field observations, McCANN 697; Long flights of in India, FERRAR 321.—*P. dasymallus* general notes [in Japanese], KISHIDA 579.—*P. tokudae* sp. n. Guam Pacific and list of other Pacific Is. spp., TATE Amer. Mus. Nov. no. 713 p. 1.—*P. goweri* sp. n. Gower I., Solomons, TATE Amer. Mus. Nov. 718 p. 1.—*P. yumagatai* sp. n. N. Loochoo Is., KISHIDA Lansania 1 1929 p. 125.

ORDER PROSIMIAE.

Osteology of the subfossil Lemurs of Madagascar, LAMBERTON 633.

ANAPTOMORPHIDAE.

†*Dyseolemur pacificus* gen. et sp. n. (nr. *Washakius*) late Eocene California, STOCK Proc. Nat. Acad. Sci. Washington 20 p. 150 figs.

MEGALADAPIDAE.

†*Megaladapis* general account with descr. osteology etc. figs. p. 47, LAMBERTON 633.

NYCTICEBIDAE.

Loris structure and generic characters p. 93, *L. tardigradus* revision of races p. 113, *L. t. nordicus* subsp. n. North Ceylon p. 120 many figs., HILL *Spolia zeylan.* 18.—*L. lydekkerianus* glycogen and fat in ovarian follicles, RAO 881.

Nycticebus malaianus visceral anatomy, HARROWER 443.

Perodicticus potto anatomy of forearm and thumb, FORSTER 341; of palm and foot, FORSTER 342.

CHIROMYIDAE.

†*Chiromys robustus* sp. n. Quaternary Madagascar, LAMBERTON Mem. Acad. Malgache 17 p. 40 figs.

LEMURIDAE.

†*Archaeoindris fontoynonti* descr. figs. p. 11, LAMBERTON 633.

Lepidolemur ruficaudatus descr. foetus fig., PETIT 838.

†*Pronycticebus gaudryi* structure of skull and systematic affinities, a true Lemuroid, CLARK 212.

ORDER PRIMATES.

Cranial foramina in Primates, BOYD 133.

The hypotrochanteric fossa in Man and Apes, HRDLÍČKA 511.

Phylogeny of the molars of the Primates, FRIANT 356.

Facial muscles of some of the lower Primates compared with those of *Tupaia*, LIGHTOLLER 661.

Difference between the facial aspect in man and apes, KLEINSCHMIDT 589.

Morphology of the hand in the Primates, SCHREIBER 969.

External anatomy of the hand and foot in Primates, MIDLO 731.

The body cavity and arrangement of its contents in Primates, SCHREIBER 970.

Cerebral arteries of the Primates, WATTS 1147.

Structure of the kidney in Primates, STRAUS 1054.

The menstrual cycle in the Primates, ZUCKERMAN & FULTON 1206.

Blood tests of serum for Primate affinities to Lemurs, ZUCKERMAN 1204.

Intelligence in the Monkeys, VERLAINE & GALLIS 1117; TELLIER, 1076; Psychology studies, SCHWARZ 978.

CALLITRICHIDAE (HAPALIDAE).

Leontocebus rosalia birth and growth of young, DITMARS 266.

CEBIDAE.

Alouatta palliata habits and psychological studies in the field, CARPENTER 174.—*A. caraya* psychology, SCHMID 959.

Aotus trivirgatus bred and reared in captivity, photos, ENGLISH 311.

CERCOPITHECIDAE.

Psychology and habits and captivity, SCHMID 959.

Macaca mulatta general account of anatomy, HARTMAN 445; Structure of geniculate body of the eye, BRODY 141; Sympathetic nerves, ZUCKERMAN & BURR 1205.—*M. iris mordax* dentition and tooth change, SPIEGEL 1027.—*M. nemestrina* × *M. nigra maura*, a hybrid, SCHWARZ 985.

Nasalis larvatus age changes in coat colour, col. pl. p. 27, FRECHKOP 353.

Papio porcarius auct. must become *P. comatus* E. Geoffr. and notes on supposed races and taxonomy p. 259, SCHWARZ 980.

†*Papio africanus* fig. skull p. 473, BROOM 142.

Pithecus vetulus monograph with revision of five Ceylon races and their ranges, HILL 491.

Presbytis arwasca sp. n. Sarawak p. 126 and a review of all the 13 allied spp. of the *P. femoralis* group, MILLER J. Mammal. 15 p. 124.—*P. canicrus* sp. n. Dutch Borneo, MILLER Proc. Biol. Soc. 47 p. 15.—*P. ruhei* sp. n. Siam, KNOTTNERUS-MEYER Zool. Garten 6 p. 259.

Semnopithecus and allied genera profiles and nasal openings figured p. 29, FRECHKOP 353.

†*Semnopithecus leakeyi* sp. n. Pleistocene Tanganyika Terr., HOPWOOD Ann. Mag. N.H. (10) 14 p. 547.

SIMIIDAE.

Multiple births in Anthropoid Apes, YERKES 1187.

†*Adactontherium incognitum* gen. (Anthropoid?) et sp. n. Pliocene Punjab, LEWIS Amer. J. Sci. (5) 27 p. 174 figs.

†*Bramapithecus thorpei* gen. et sp. n. Pliocene Punjab, LEWIS Amer. J. Sci. (5) 27 p. 173 figs.

†*Dryopithecus sivalensis* sp. n. Pliocene Himalaya, LEWIS Amer. J. Sci. (5) 27 p. 171 figs.

Gorilla field observations in S. Nigeria and Cameroons, ALLEN 14; ANON 23; A defective skull due to gun-shot wound, WALLIS 1134.—*G. beringei* distinguishing characters, SCHULTZ 974.

Hylobates remarks on classification p. 20, FRECHKOP 353.—*H. leuciscus* anatomy of the forearm and thumb, FORSTER 341.—*H. concolor leucogenys* general account, photos, DELACOUR 260.

Pan satyrus (Chimpanzee) revision of races, *P. s. verus* subsp. n. Sierra Leone, SCHWARZ Ann. Mag. N.H. (10) 6 p. 578.

Pongo pygmaeus (Orang) pericardial patency, heart herniated, DE GRIS 256; General account, KLEINSCHMIDT 588; An old Dutch picture of 1652, VIRCHOW 1120.

†*Ramapithecus* gen. n. for genotype *R. brevirostris* p. 162, and *R. hariensis* p. 166 spp. n. figs. Pliocene Himalaya, LEWIS Amer. J. Sci. (5) 27.

Simia satyrus (Orang) field notes in Sumatra, NAINGGOLAN 770.

†*Sugrivapithecus* gen. n. p. 167 for genotype *S. salmontanus* sp. n. p. 168 figs. Pliocene Punjab, LEWIS Amer. J. Sci. (5) 27.

HOMINIDAE.

Origin of Man, CAMERON 168.

Phylogeny of Man, GREGORY 399; LEAKEY 644.

Recent work on early Man, JOLEAUD 554.

Early man in Asia, recent discoveries, MACCURDY 700.

Age of Man in N. America, SCHULTZ 975.

†*Australopithecus africanus* dentition, DART 240.

†*Homo* desc. of fossil skeleton from nr. Santa Fe, Argentina, VIGNATI 1119.

†*Homo soloënsis* in Diluvial of Java further notes, TER HAAR 415.

Pithecanthropus evidence of locomotor function in upper limb, DUBOIS 276.

†*Sinanthropus pekinensis* discovery, morphology and environment, BLACK 106; Geological age and affinities, BLACK 105; Endocranial cast, SHELL-SHEAR & SMITH 996.

INDEX TO NAMES

OF

NEW GENERA AND SUBGENERA

INCLUDING NEW NAMES FOR GENERA PREVIOUSLY ESTABLISHED

RECORDED IN THIS VOLUME FOR 1934.

The total number of New Genera enumerated in this list is 2,727, an increase of 640 on that of the previous year.

In the last six years the numbers have been:—1928, 2,219 ; 1929, 2,022 ; 1930, 2,139 ; 1931, 2,377 ; 1932, 1,990 ; 1933, 2,087.

The list for 1934 is made up as follows:—

| | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-------|
| Protozoa | ... | ... | ... | ... | ... | ... | 63 |
| Porifera | ... | ... | ... | ... | ... | ... | 34 |
| Coelenterata | ... | ... | ... | ... | ... | ... | 27 |
| Echinodermata | ... | ... | ... | ... | ... | ... | 27 |
| Vermes | ... | ... | ... | ... | ... | ... | 174 |
| Brachiopoda and Bryozoa | ... | ... | ... | ... | ... | ... | 57 |
| Mollusca | ... | ... | ... | ... | ... | ... | 178 |
| Crustacea | ... | ... | ... | ... | ... | ... | 62 |
| Arachnida | ... | ... | ... | ... | ... | ... | 147 |
| Insecta:— | | | | | | | |
| Coleoptera | ... | ... | ... | ... | ... | ... | 313 |
| Hymenoptera | ... | ... | ... | ... | ... | ... | 208 |
| Diptera | ... | ... | ... | ... | ... | ... | 211 |
| Lepidoptera | ... | ... | ... | ... | ... | ... | 524 |
| Other Orders | ... | ... | ... | ... | ... | ... | 408 |
| Fossil Insects | ... | ... | ... | ... | ... | ... | 51 |
| | | | | | | — | 1,715 |
| Prochordata | ... | ... | ... | ... | ... | ... | 14 |
| Pisces | ... | ... | ... | ... | ... | ... | 131 |
| Amphibia and Reptilia | ... | ... | ... | ... | ... | ... | 33 |
| Aves | ... | ... | ... | ... | ... | ... | 11 |
| Mammalia | ... | ... | ... | ... | ... | ... | 54 |

Total 2,727

- Abolodoria *Townsend* Ins. 393
 Abothris *Semenov-Tian-Shanskii & Richter* Ins. 230
 Acanthacris *Uvarov* Ins. 470
 Acanthasargus *White* Ins. 381
 Acanthiomyia *Hunter* Ins. 381
 Acanthocacia *Aurivillius* Ins. 257
 Acanthocyrtus *Handschin* Ins. 476
 Acanthoides *Brotzen* Pisces 46
 Acanthomurus *Womersley* Ins. 476
 Acanthophaena *Cameron* Ins. 212
 Acanthopolyipnus *Fowler* Pisces 50
 Acanthopsoidea *Fowler* Pisces 54
 Aceclostria *Vuillot* Ins. 338
 Acentron *Mitchell* Ins. 270
 Acerataspis *Uchida* Ins. 292
 Achaetocephalon *Rohdendorf* Ins. 404
 Acharista *Melichar* Ins. 434
 Achepydna *Matsumura* Ins. 329
 Achiraffraya *Navás* Ins. 216
 Achrysocharella *Girault* Ins. 289
 Acia *McAtee* Ins. 435
 Ackertia *Vaz* Vermes 135
 Acolastodes *Meyrick* Ins. 339
 Acophila *Ishii* Ins. 286
 Acoptopterus *Lapouge* Ins. 203
 Acramorphocephalus *Kleine* Ins. 254
 Acritolagria *Borchmann* Ins. 235
 Acrocarabus *Lapouge* Ins. 206
 Acrocetropus *Betten* Ins. 355
 Acrocercus *Lohmann* Protoch. 5
 Acrodisca *Bezzi* Ins. 387
 Acrohydraspis *Rusconi* Amph. 34
 Acrolister *Bickhardt* Ins. 218
 Acroperca *Myers* Pisces 58
 Acropogon *Enderlein* Ins. 368
 Acropolis *Hemming* Ins. 305
 Acropterygella *Strand* Ins. 339
 Acrothoraconia *Bernhauer* Ins. 216
 Actinoblatta *Pruvost* Ins. 481
 Actinochaetopsis *Townsend* Ins. 393
 Actinocrates *Meyrick* Ins. 339
 Actinopterina *Isberg* Moll. 95
 Adaethontherium *Lewis* Mam. 85
 Adamacypris *Fowler* Pisces 52
 Adamussium *J. Thiele* Moll. 97
 Adeloapteromyia *Schmitz* Ins. 390
 Adichosina *Villeneuve* Ins. 403
 Adkinsella *Wells* Coel. 19
 Adriana *De Gregorio* Brach. 18
 Adrianella *Parona* Por. 6
 Aegeocephala *Prell* Ins. 242
 Aeglops *Aldrich* Ins. 394
 Aelurosauroidea *Boonstra* Amph. 32
 Aenasiella *Girault* Ins. 288
 Aeolopetra *Meyrick* Ins. 339
 Aetheandra *Loomis* Arach. 49
 Aetheopompilus *Arnold* Ins. 276
 Afranius *Mello-Leitão* Arach. 39
 Afreutreta *Bezzi* Ins. 412
 Africaleurodes *Dozier* Ins. 441
 Africasia *Rohdendorf* Ins. 403
 Afrodynerus *Giordani Soika* Ins. 280
 Afropunctum *F. Haas* Moll. 89
 Agalmia *Enderlein* Ins. 406
 Agara *Mabille & Bouillet* Ins. 315
 Ageniella *Banks* Ins. 276
 Agenodesmus *Loomis* Arach. 49
 Aglaocetus *Kellogg* Mam. 65
 Agrarialia *Curran* Ins. 394
 Agriochaetops *Townsend* Ins. 394
 Aireina *Frey* Ins. 387
 Akatopora *Davis* Bry. 35
 Alaccoprosopa *Townsend* Ins. 394
 Alagria *Borchmann* Ins. 235
 Alathyria *Iredale* Moll. 100
 Albanella *Harris & Laicker* Crust. 45
 Albardia *Jakobson* Ins. 449
 Alcockella *Fowler* Pisces 49
 Alcyospongia *de Laubenfels* Por. 6
 Aldrichina *Townsend* Ins. 403
 Alepomyiodes *Sibley* Ins. 355
 Aleucosia *Edwards* Ins. 387
 Alexiopogon *Curran* Ins. 385
 Alfiera *Giordani Soika* Ins. 279
 Alitophasia *Townsend* Ins. 394
 Allaphis *Mordvilko* Ins. 438
 Allgénia *Strand* Vermes 123
 Allgénella *Strand* Vermes 120
 Alliomma *Borgmeier* Ins. 381
 Alliops *Malloch* Ins. 406
 Allobezzi *Kieffer* Ins. 369
 Allocera *Borchmann* Ins. 235
 Alloceraca *Benick* Ins. 210
 Alloceratites *Spath* Moll. 112
 Allochironomus *Kieffer* Ins. 371
 Allogria *Borchmann* Ins. 235
 Alloperissa *Meyrick* Ins. 339
 Alloxypotus *Bezzi* Ins. 387
 Alluaudellina *Chopard* Ins. 462
 Almugmyia *Townsend* Ins. 394
 Alphamenes *Bertoni* Ins. 279
 Amathillopleustes *Pirlot* Crust. 37
 Amaurina *Aurivillius* Ins. 305
 Amaurospizopsis *Griscom* Aves 101
 Amazohoughia *Townsend* Ins. 394
 Ambonychinia *Isberg* Moll. 99
 Ambonychiopsis *Isberg* Moll. 99
 Amblychaeta *Aldrich* Ins. 394
 Amblyconus *Kieffer* Ins. 285
 Ameropterus *Esben-Petersen* Ins. 361
 Ammobaculoides *Plummer* Prot. 58
 Ammocibicides *Earland* Prot. 58
 Ammoflantina *Earland* Prot. 58
 Ammotrechelis *Roewer* Arach. 36
 Ammotrechella *Roewer* Arach. 36
 Ammotrechesta *Roewer* Arach. 36
 Ammotrechinus *Roewer* Arach. 36
 Ammotrechona *Roewer* Arach. 36
 Ammotrechula *Roewer* Arach. 36
 Amoena *Stichel* Ins. 306
 Amorphocarabus *Lapouge* Ins. 206

- Ampeliptera Pruvost* Ins. 483
Amphignostis Meyrick Ins. 339
Amphilaphorchis Woodland Vermes 104
Amphiorchis Price Vermes 85
Amphiperca Weitzel Pisces 59
Amphipleurichthys Whitley Protoch. 6
Amydvea Zia Ins. 219
Anabolina Strand Ins. 227
Anabremia Kieffer Ins. 365
Anachaetopsina Villeneuve Ins. 394
Anacornutipo Evans Ins. 434
Anacranæ Miller Ins. 470
Anacrostichia Enderlein Ins. 406
Anacyrtoxipha Chopard Ins. 466
Anadasynus China Ins. 424
Anadiscalia Curran Ins. 394
Anadistichona Townsend Ins. 394
Anagnota Becker Ins. 419
Anamesacris Uvarov Ins. 470
Anaperus Mabilie & Boulet Ins. 315
Anaplectus Coninck & Stekhoven Vermes 123
Anapodisma Dovnar-Zapolskii Ins. 470
Anaravinia Townsend Ins. 394
Anarthraspis Bryant Pisces 47
Andreula Kahl Prot. 69
Androphobus Hartert & Paludan Aves 94
Androthelopsis Mello-Leitão Arach. 32
Androthrips Karny Ins. 446
Anellaria Bakkendorf Ins. 289
Anellina Gregorio Bry. 35
Anerota Caudell Ins. 467
Aneuropria Kieffer Ins. 286
Angolia Malloch Ins. 406
Anguinicephalus Deraniyagala Amph. 36
Anica Lhoste Ins. 262
Aniphiaulax Kokujev Ins. 298
Anipo Evans Ins. 434
Anisobichneumon Heinrich Ins. 292
Anisophaea Fraser Ins. 456
Anisostena Weise Ins. 265
Anogelia Heller Ins. 245
Anomalocoelia Isberg Moll. 99
Anomaloctenus Cushman Ins. 292
Anomalosiphum Takahashi Ins. 438
Anomodoryx Burton Por. 6
Anomolissa de Laubenfels Por. 6
Anomomyxilla Burton Por. 6
Anoplinellus Banks Ins. 276
Anthodiplosis Kieffer Ins. 365
Anthracobunodon Heller Mam. 69
Anthracocarabus Lapouge Ins. 206
Anthracoperca Voigt Pisces 50
Anthracosta Pruvost Ins. 483
Antihomocrinus Schmidt Echin. 21
Antimima Turner Ins. 330
Antiparaparchites Coryell & Rogatz Crust. 45
Antipodoecia Mosely Ins. 355
Antissella White Ins. 381
Antistaseopsis Townsend Ins. 394
Apatanodes Navás Ins. 355
Apeloglutus Greene Ins. 394
Apentacentrus Chopard Ins. 466
Aperotemporalis Stromer Amph. 34
Aphaniceropsis Barnard Ins. 452
Aphanopeltis Mabilie Ins. 306
Aphelogaster Aldrich Ins. 394
Aphotriolister Enderlein Ins. 381
Aphropsis Metcalf & Horton Ins. 432
Aphthonomorpha Chen Ins. 263
Apirene Girault Ins. 288
Aplococera Enderlein Ins. 381
Apocarabus Lapouge Ins. 206
Apogromia Saedeleer Prot. 57
Apopnus Handlirsch Ins. 480
Aporinellus Banks Ins. 276
Aporobolus Loomis Arach. 49
Apostenolinus Bernhauer Ins. 215
Apotoforma Busck Ins. 351
Aproctiana Skrzabin Vermes 135
Apterrhidaeus Karny Ins. 464
Arachnidomyia Townsend Ins. 403
Araeostoma Turner Ins. 345
Araucosimus Aldrich Ins. 394
Arbuscula Parona Por. 6
Archboldiella Heinrich Ins. 292
Archiborborus Duda Ins. 410
Archicnesia Enderlein Ins. 368
Archigenes Fruhstorfer Ins. 309
Archilimnophila Alexander Ins. 377
Archisotoma Axelson Ins. 476
Archtotipula Alexander Ins. 380
Arctognathoides Boonstra Amph. 32
Arctosoma Aldrich Ins. 394
Arcothrips Hood Ins. 446
Argyrobothrus Barnard Ins. 356
Argyropile Mitchell Ins. 270
Arhipidea Alexander Ins. 380
Arhopcnemia Enderlein Ins. 403
Aridalia Curran Ins. 394
Arjuna Muir Ins. 430
Arpactomorpha Arnold Ins. 276
Arrhenes Mabilie Ins. 315
Arthrochlamys Ihering Ins. 262
Artifactella Coryell & Booth Crust. 45
Artigasie Christie Vermes 130
Aruta Swinhoe Ins. 326
Asapheneura Pruvost Ins. 482
Asaphestera M. C. Steen Amph. 39
Aschiphasmodes Karny Ins. 464
Aselas Barnard Ins. 356
Asias Semenov Ins. 255
Asiocarcelia Baranov Ins. 394
Asiocricetus Kishida Mam. 75
Aspericorvina Fowler Pisces 59
Asphadastis Meyrick Ins. 339
Aspidograptus Bullman Coel. 15

- Astegastoplax Enderlein* Ins. 403
Asteriaceros Valette Echin. 19
Asterocampa Röber Ins. 307
Asteromyia Felt Ins. 365
Asthenocarabus Lapouge Ins. 206
Astollia Kirby Ins. 463
Astyloneura Gaede Ins. 338
Ataneostigma Girault Ins. 288
Ategana Stichel Ins. 306
Atelia Enderlein Ins. 406
Ateloglutus Aldrich Ins. 394
Atherigia Szilády Ins. 383
Atherimorpha White Ins. 383
Atherinason Whitley Pisces 64
Atomoclostis Meyrick Ins. 339
Atomostethus Enslin Ins. 302
Atopocephala Brough Pisces 48
Atopotera M. C. Steen Amph. 39
Audantia Cochran Amph. 36
Audre Hemming Ins. 309
Aulametopiellus Bréthes Ins. 246
Aulechinus Bather & Spencer Echin. 13
Aulohalaelurus Fowler Pisces 46
Auristira Borchmann Ins. 236
Austinoceras Foerste Moll. 113
Australorbis Pilsbry Moll. 82
Austracris Uvarov Ins. 470
Austrocoenosia Malloch Ins. 407
Austroglyphis Cotton & Godfrey Moll. 62
Austromacquartia Townsend Ins. 395
Austronomus Iredale & Troughton Mam. 83
Austrosaropogon Hardy Ins. 385
Austrothrombium Womersley Arach. 41
Avellaria Freitas & Lent Vermes 132
Avioserpens Wehr & Chitwood Vermes 136
Awadoronus Kôno Ins. 222
Awafukia Matsumura Ins. 432
Axana Swinhoe Ins. 326
Aztekophilus Verhoeff Arach. 47
Azulihoughia Townsend Ins. 395
Azygobolus Loomis Arach. 49
Azygobothria Townsend Ins. 395

Baeophylla Turner Ins. 345
Baeoura Alexander Ins. 378
Baga Navás Ins. 361
Bahariasaurus Stromer Amph. 33
Baiopsis Hoepen Amph. 32
Bakeria Kieffer Ins. 286
Baldulus Oman Ins. 434
Balthasarianus Paulian Ins. 240
Bambuscopus Heinrich Ins. 292
Baranogale Kormos Mam. 79
Baranomys Kormos Mam. 75
Barbarochthon Barnard Ins. 356
Barbourichthys Chabanaud Pisces 65
Barbulanympha Cleveland Prot. 67
Barburion Clark Ins. 328
Barichneumonites Heinrich Ins. 292

Bartrumia Marwick Moll. 104
Baryphanes Turner Ins. 321
Basilicocarabus Lapouge Ins. 206
Basiliella Kobayashi Arach. 28
Bassleratia Kay Crust. 45
Bathyamphioxus Whitley Protoch. 6
Bathyceradocus Pirlot Crust. 37
Bathyceratias Beebe Pisces 66
Bathyembryx Beebe Pisces 50
Bathypipteron Fowler Pisces 49
Bathysidus Beebe Pisces 48
Bathystorreus Rivero Pisces 63
Bathyroconger Fowler Pisces 56
Beameria Davis Ins. 429
Beatadesmus Loomis Arach. 49
Beatogordius Heinze Vermes 137
Beebeomyia Curran Ins. 411
Belacanthus Brotzen Pisces 46
Belaria Saedeleer Prot. 57
Bellornatia Kay Crust. 45
Belvosiella Curran Ins. 395
Benthenchelys Fowler Pisces 55
Benthotrema Manter Vermes 93
Berbericeras Roman Moll. 113
Berothella Banks Ins. 361
Berryidium Grimpe Moll. 110
Beteumenes Bertoni Ins. 279
Bichromonecta Hungerford Ins. 429
Bicornella Coryell & Cuskley Crust. 45
Bidenichthys Barnard Pisces 63
Bigelovia MacDonald & Clench Moll. 111
Biggaria Kahl Prot. 69
Binhister de Cooman Ins. 218
Biolleya Saussure Ins. 463
Biovarium Yamaguti Vermes 92
Birdsallia Coryell & Booth Crust. 46
Bitubulogenerina Howe Prot. 59
Bitylenchus Filipjev Vermes 128
Bivesicula Yamaguti Vermes 94
Blaboplutodes Prout Ins. 330
Blastamina Eisenack Prot. 59
Blattocoleus Zeuner Ins. 479
Blepharrhymorphus Ihssen Ins. 211
Bolbocephalus Dubois Vermes 86
Boltonia Handlirsch Ins. 482
Boltonia Pruvost Ins. 482
Bombozelosis Enderlein Ins. 391
Bonthainia Heinrich Ins. 292
Bonthainiella Heinrich Ins. 292
Bothricara Borchmann Ins. 236
Bothriophylax Miram Ins. 466
Bothynogria Borchmann Ins. 236
Botrydesmus Loomis Arach. 49
Bovicornellum Howell Vermes 158
Bowdenathecra Collins Moll. 73
Bracharoa Hampson Ins. 326
Brachycercus Willemse Ins. 470
Brachychrysocherella Girault Ins. 289
Brachycoryne Mabille Ins. 316
Brachycyttara Turner Ins. 322

- Brachyenteron *Manter* Vermes 94
 Brachyglaucomsoma *Fowler* Pisces 59
 Brachylister *Bickhardt* Ins. 218
 Brachymasicera *Townsend* Ins. 395
 Brachypleurops *Fowler* Pisces 65
 Brachypodosaurus *Chakravarti* Amph. 33
 Brachyposthia *Brandtner* Vermes 81
 Brachyrhamphus *Carl* Ins. 464
 Bracia *Enderlein* Ins. 403
 Bramapithecus *Lewis* Mam. 85
 Breddiniola *Muir* Ins. 431
 Brenthidogenia *Heller* Ins. 246
 Brentomeron *Verhoeff* Arach. 51
 Brevinucula *Thiele* Moll. 94
 Bridarollus *Navás* Ins. 361
 Brintesia *Fruhstorfer* Ins. 305
 Bristowia *Reimoser* Arach. 35
 Bryobates *Broun* Ins. 262
 Bryohenlea *Černovítov* Vermes 154
 Bryophaenocladus *Thienemann* Ins. 372
 Bucephalinus *Koch* Ins. 216
 Buchema *Corea* Moll. 78
 Budaia *Wells* Coel. 20
 Bulbauchenia *Schumacher* Ins. 433
 Burllella *Coryell & Booth* Crust. 46
 Bursaphis *Baker* Ins. 439
 Bursigomphus *Martin* Ins. 456
 Butania *Bolívar* Ins. 470
 Byssodesma *Isberg* Moll. 96
 Cacoides *Cowley* Ins. 456
 Cacolaimus *Kreis* Vermes 125
 Caenisomopsis *Townsend* Ins. 395
 Caicella *Hemming* Ins. 316
 Calagenia *Banks* Ins. 277
 Caleta *Fruhstorfer* Ins. 310
 Califortalis *Curran* Ins. 411
 Calipyrgula *Pilsbry* Moll. 67
 Callieleotris *Fowler* Pisces 61
 Calligenethlon *M. C. Steen* Amph. 30
 Callimucenus *Whitley* Pisces 62
 Callipteroides *Mordvilko* Ins. 439
 Callodonta *Isberg* Moll. 96
 Callopsylla *Wagner* Ins. 421
 Calloretinella *Haas* Moll. 84
 Calogria *Borchmann* Ins. 236
 Calolina *Lhoste* Ins. 262
 Caloneurella *Carpenter* Ins. 482
 Calosphen *Hennig* Ins. 414
 Calveriosoma *Mortensen* Echin. 13
 Calvoppia *Jacot* Arach. 41
 Calycina *Blair* Ins. 239
 Camacolaimoides *Coninck & Stekhoven* Vermes 132
 Camarophorina *Licharew* Brach. 13
 Campecha *Melichar* Ins. 434
 Campptolegnum *Schilsky* Ins. 225
 Canaceoides *Cresson* Ins. 417
 Canalia *Curran* Ins. 395
 Canceraspis *Hempel* Ins. 443
 Cancerillopsis *Stephensen* Crust. 42
 Candocypria *Furtos* Crust. 46
 Candorbulina *Jedlitschka* Prot. 59
 Cantharoxylum *Linsley* Ins. 256
 Canthochilum *Chapin* Ins. 240
 Canua *Davis* Bry. 35
 Canupora *Kuhn* Bry. 35
 Capicua *Navás* Ins. 361
 Capitina *Watson* Moll. 90
 Capnopteron *Rohdendorf* Ins. 404
 Carceliella *Baranov* Ins. 395
 Carceliocephala *Townsend* Ins. 395
 Cardioribates *Jacot* Arach. 41
 Carinacanthus *Bryant* Pisces 47
 Carriola *Swinhoe* Ins. 326
 Castalioides *Marshall* Moll. 101
 Catabacentes *Villeneuve* Ins. 395
 Catalecanites *Spath* Moll. 113
 Caucasella *Moisseiev* Brach. 20
 Cavipupa *Pilsbry* Moll. 91
 Cavusgnathus *Harris & Hollingsworth* Vermes 158
 Caxia *Melichar* Ins. 434
 Cecidobracon *Kieffer & Jörgensen* Ins. 297
 Cecidotrioza *Kieffer* Ins. 438
 Cedria *Wilkinson* Ins. 297
 Celaenotrichia *Mosely* Ins. 356
 Celebarches *Heinrich* Ins. 292
 Celebichneumon *Heinrich* Ins. 293
 Celebijoppa *Heinrich* Ins. 293
 Celtiphaga *Barnes & Lindsey* Ins. 307
 Cenobiopelma *Mello-Leitão & Arlé* Arach. 32
 Centralhyria *Iredale* Moll. 101
 Centrometropia *Melichar* Ins. 437
 Centrooceras *Kobayashi* Moll. 114
 Cephaloporus *Yamaguti* Vermes 99
 Cerataspis *Uchida* Ins. 293
 Ceratobezzia *Kieffer* Ins. 370
 Ceratocypris *Poulsen* Crust. 46
 Ceratoma *Borchmann* Ins. 236
 Ceratopholcus *Spassky* Arach. 34
 Ceratopirates *Schouteden* Ins. 426
 Ceratopyga *Nunney* Ins. 456
 Ceratotrastichus *Girault* Ins. 289
 Cerberothrombium *Viets* Arach. 45
 Cereaxina *Jeannel* Ins. 220
 Cerodesma *Enderlein* Ins. 403
 Cerodiscua *Enderlein* Ins. 403
 Ceuthmonocharis *Jeannel* Ins. 217
 Chabriosoma *Chen* Ins. 263
 Chaetocnema *Duda* Ins. 418
 Chaetodacus *Bezzi* Ins. 413
 Chaetolonchaea *Czerny* Ins. 410
 Chaetomosillus *Hendel* Ins. 417
 Chaetonalia *Curran* Ins. 395
 Chaitophoroides *Mordvilko* Ins. 439
 Chalcidellia *Gibrault* Ins. 287
 Chalcocomus *Riley* Aves 75

- Chalcocystis Watson* Moll. 89
Chalepotatus Weise Ins. 266
Chalepoxenus Menozzi Ins. 282
Chaoiella Fredericks Brach. 16
Charitonowia Strand Arach. 33
Charitopteryx Cowley Ins. 457
Charltoniada Strand Ins. 339
Chasenella Roewer Arach. 40
Cheimacheramus Barnard Ins. 356
Chelobremia Kieffer Ins. 365
Chelonechinus Bather Echin. 13
Chelophyes Totton Coel. 12
Chiasosella Bassler Bry. 36
Chichkovia Valkanov Prot. 57
Chilaphrodesmus Loomis Arach. 49
Chilenaria Verhoeff Arach. 48
Chilocentropus Navás Ins. 356
Chilocremastis Meyrick Ins. 339
Chilocystis Watson Moll. 89
Chiloleon Navás Ins. 361
Chinaia Bruner & Metcalf Ins. 434
Chinaria Davis Ins. 429
Chinobius Verhoeff Arach. 47
Chisiloceras Gortani & Merla Moll. 114
Chitala Fowler Pisces 50
Chivinia Shestakov Ins. 297
Choanostoma Yamaguti Vermes 89
Chondracris Uvarov Ins. 470
Chondroteuthis Bode Moll. 114
Chosenia Kobayashi Arach. 28
Chromarina Kreis Vermes 121
Chrysocharella Girault Ins. 289
Chrysodoria Townsend Ins. 395
Chrysonotomyia Hunter Ins. 383
Chrysosomidia Curran Ins. 391
Chunopleura Lohmann Protoch. 5
Chibicorbis Hadley Prot. 59
Cinctotipula Alexander Ins. 380
Circocephalus Willemse Ins. 471
Cisolea Oke Ins. 246
Citellophilus Wagner Ins. 421
Citharophorus Méquignon Ins. 221
Citripo Evans Ins. 434
Claassenia Wu & Claassen Ins. 452
Cladomimus Carl Ins. 464
Cladotanytarsus Kieffer Ins. 372
Claparediella Filepjev Vermes 121
Clarella Howell Arach. 28
Clastoneura Aldrich Ins. 395
Clathrotellina Thiele Moll. 104
Cleidodiscua Mueller Vermes 83
Clepsimacha Meyrick Ins. 345
Clesthertia White Ins. 383
Climaconeura Pruvoost Ins. 482
Clinohelia Kieffer Ins. 370
Clionoides Fenton & Fenton Por. 7
Clistoderes Banks Ins. 278
Clitostethus Weise Ins. 221
Cluniaster Jeannet Echin. 13
Clusina Curran Ins. 410
Clypeocava Heinrich Ins. 293
Cnemidoctenia Enderlein Ins. 368
Cnephralodes Townsend Ins. 395
Cnesia Enderlein Ins. 368
Cnidopus Carlgren Coel. 20
Cnoodophrys Enderlein Ins. 404
Coccidinium Chatton & Biecheler Prot. 65
Codonellina Bassler Bry. 36
Coecaria Lohmann Protoch. 5
Coelister Bickhardt Ins. 218
Coelocarteria Burton Por. 7
Coelosphaerella de Laubenfels Por. 7
Coenocrinus Valette Echin. 21
Coenotephria Prout Ins. 331
Coleites Plummer Prot. 59
Collartiella Schouteden Ins. 426
Collatia Curran Ins. 395
Collinophrya Kahl Prot. 71
Coloradalia Curran Ins. 396
Commisia Enderlein Ins. 407
Comops Aldrich Ins. 396
Compsodon Hoepen Amph. 32
Conactiodoria Townsend Ins. 396
Conagenia Banks Ins. 277
Congrhynchus Fowler Pisces 56
Conidophrys Chatton & Lwoff Prot. 69
Conigephyra Collette Ins. 326
Coniochlorops Duda Ins. 415
Coniomastix Enderlein Ins. 387
Conolepis Brotzen Pisces 46
Conophyes Leloup Coel. 13
Conoporoderma Fowler Pisces 46
Copamyntis Meyrick Ins. 340
Cophocetus Packard & Kellogg Mam. 65
Cophopodisma Dovnar-Zapolskii Ins. 471
Cophoprumna Dovnar-Zapolskii Ins. 471
Cophoscincopus Mertens Amph. 36
Copifrontia Hampson Ins. 322
Coracomys Aldrich Ins. 396
Corbettia Dozier Ins. 442
Cordagalma Totton Coel. 13
Cornutipo Evans Ins. 435
Cornutipoides Evans Ins. 435
Corozalia Curran Ins. 396
Correntosia Malloch Ins. 407
Corvaspis Woodward Pisces 45
Coryella Harris & Lalicker Crust. 46
Coryneerinus Kirk Echin. 21
Corynophrya Kahl Prot. 71
Cosmogoniophorina Isberg Moll. 96
Cossidophaga Baranov Ins. 396
Cossyphicula Grote Aves 96
Cottonia Iredale Moll. 77
Cotylogonoporum Thapar & Dayal Vermes 91
Craseops Stock Mam. 82
Cremona Busck Ins. 346
Crenopharynx Filepjev Vermes 124
Cressoniella Mitchell Ins. 270

- Cribratina Sample* Prot. 59
Crocidema Van Dyke Ins. 247
Crosbyana Strand Arach. 34
Crosbyellum Strand Arach. 35
Crosslandiella Monro Vermes 151
Crossobothus Fowler Pisces 65
Crucitragus Breuning Ins. 260
Cryphimaea Turner Ins. 322
Cryptobremia Kieffer Ins. 365
Cryptocarenus Eggers Ins. 253
Cryptolauthia Kieffer Ins. 365
Cryptolestes Tate Mam. 64
Cryptoribatula Jacot Arach. 41
Ctenichneumon Thomson Ins. 292, 293
Ctenognophos Prout Ins. 332
Ctenogria Borchmann Ins. 236
Ctenomorphodes Karny Ins. 464
Ctenonyx Seyrig Ins. 293
Cucumerunio Iredale Moll. 101
Cuerna Melichar Ins. 435
Cuernavaca Baker Ins. 439
Cuneocoris Handlirsch Ins. 480
Cuparymyia Townsend Ins. 396
Curpilladia Sjöstedt Ins. 471
Curtisia von Graff Vermes 82
Cushmaniella Heinrich Ins. 293
Cuvilliera Pfender Bry. 34
Cyaniriodes de Nicéville Ins. 310
Cyathospirura Baylis Vermes 134
Cyclechinus Bickhardt Ins. 218
Cyclocystis Watson Moll. 89
Cyclyrus Butler Ins. 310
Cymagenia Arnold Ins. 277
Cylindrataxia Linsley Ins. 258
Cylindrocryptus Ceballos Ins. 293
Cylindrotheca Eisenack Coel. 13
Cymaroa Hampson Ins. 326
Cymbephallus Linton Vermes 89
Cyphogaster Goecke Ins. 261
Cyphoryctis Meyrick Ins. 346
Cypselodopteryx Townsend Ins. 396
Cyptochirus Lesne Ins. 240
Cyrtodiplosis Kieffer Ins. 365
Cyrtovaginoceras Kobayashi Moll. 114

Dabba Uvarov Ins. 471
Dactyloceras Mell. Ins. 336
Dactylocladius Kieffer Ins. 372
Dactylocomicus Karny Ins. 468
Dactylodiscia Enderlein Ins. 368
Dactylonotus Parent Ins. 389
Dactylurina Cockerell Ins. 272
Daemhippus Navás Ins. 481
Daesiella Hewitt Arach. 36
Dakinomyia Hardy Ins. 385
Dammarobius Broun Ins. 237
Dammermaniella Heinrich Ins. 293
Daptocephalus Hoepen Amph. 32
Darbya Bartsch Moll. 78
Darjilingia Malaise Ins. 300
Darvasia Licharev Brach. 22

Dasyhinoessa Hendel Ins. 419
Dasytelmoza Enderlein Ins. 368
Daubaylia Chitwood & Chitwood Vermes 129
Decemtestis Yamaguti Vermes 90
Delatorreia Boone Crust. 36
Deloblepharis Aldrich Ins. 396
Deloryctis Meyrick Ins. 346
Deloscopa Meyrick Ins. 346
Delsmania Fowler Pisces 50
Dematobactron Karny Ins. 464
Dendryazousa M. C. Steen Amph. 30
Dendrysekos M. C. Steen Amph. 30
Densa de Laubenfels Por. 7
Dentagenia Haupt Ins. 277
Dentigomphus Martin Ins. 457
Deprandus Gilbert Pisces 55
Dermestosoma Méquignon Ins. 221
Derolagria Borchmann Ins. 236
Deschauensella Fowler Pisces 63
Desmapsamma Burton Por. 7
Desmomyza Curran Ins. 420
Desmothrips Hood Ins. 446
Deuterominto Villeneuve Ins. 401
Deuteronomas Prout Ins. 332
Deuterotinea Rebel Ins. 346
Dextridens Wehrli Ins. 330
Diacarnus Burton Por. 7
Diaprya Turner Ins. 344
Diatilla Handlirsch Ins. 480
Diatatommites Handlirsch Ins. 481
Dicamptocrana Frey Ins. 381
Dichellina Stephensen Crust. 42
Dichiracantha Enderlein Ins. 404
Dichometopia Melichar Ins. 437
Dicirrocinus Schmidt Echin. 22
Dicladocera Lutz Ins. 382
Dicrobezzia Kieffer Ins. 370
Dictyodea Wehrli Ins. 330
Dictyolyda Semenov-Tian-Shanski Ins. 300
Dictyssa Melichar Ins. 431
Didymuria Kirby Ins. 465
Dienoceras Spath Moll. 115
Digitia De Gregorio Brach. 18
Digonella Muir-Wood Brach. 28
Digulella Haas Moll. 90
Dilophops Loomis Arach. 49
Dinagenia Banks Ins. 277
Dinocrana Turner Ins. 346
Dinogenes Meyrick Ins. 352
Dinosalius Banks Ins. 278
Dinosoma Manter Vermes 87
Dioncholaimus Kreis Vermes 125
Diplacanthoides Brotzen Pisces 46
Diplectrolispa Enderlein Ins. 407
Dipleurodonta Isberg Moll. 96
Diplobulbus Yamaguti Vermes 90
Diplocaldasius Mello-Leitão Arach. 39
Diploglossa Martynov Ins. 356
Diradius Friederichs Ins. 451

- Dischizella *Styrgis* Ins. 293
 Dishormomya *Kieffer* Ins. 365
 Discione *Enderlein* Ins. 382
 Discodiaspis *Koronaios* Ins. 443
 Discogaster *Yamaguti* Vermes 93
 Discogasteroides *Strand* Vermes 93
 Discopterna *Enderlein* Ins. 407
 Discotoma *Haber* Moll. 62
 Disticheria *Enderlein* Ins. 404
 Ditanytarsus *Kieffer* Ins. 372
 Ditropichthys *Parr* Pisces 51
 Ditylenchus *Filipjev* Vermes 128
 Dobbertinia *Handlirsch* Ins. 479
 Doddosia *Edwards* Ins. 387
 Dodecatomorpha *Pic* Ins. 226
 Dollfustrema *Eckmann* Vermes 84
 Dolichena *Pilsbry* Moll. 91
 Dolichocarabus *Lapouge* Ins. 203
 Dolicholister *Bickhardt* Ins. 218
 Dolmacoris *Hutchinson* Ins. 425
 Donacivola *Busck* Ins. 346
 Dorcadiohammus *Pic* Ins. 258
 Doryonchus *Kreis* Vermes 125
 Douglassia *Bartsch* Moll. 78
 Droxidiplosis *Kieffer* Ins. 365
 Draschia *Chitwood & Wehr* Vermes 133
 Draudtiana *Turati* Ins. 322
 Drepanocyrtus *Handschin* Ins. 476
 Drepanoscorpis *Fowler* Pisces 60
 Drepanula *Gaede* Ins. 338
 Drusinus *Betten* Ins. 356
 Dryodiplosis *Kieffer* Ins. 365
 Dulmus *Gregorio* Por. 8
 Dulophanella *Forsius* Ins. 300
 Dumigania *Turner* Ins. 322
 Dyschimus *Barnard* Ins. 356
 Dyseolemur *Stoek* Mam. 84
- Earophilina *Strand* Ins. 233
 Ebriella *Deflandre* Prot. 65
 Echidnophora *Schmitz* Ins. 390
 Echinopeplus *Brown* Ins. 247
 Echinostephanus *Yamaguti* Vermes 93
 Ecitoclimax *Borgmeier* Ins. 212
 Ecituncula *Schmitz* Ins. 390
 Ecnolagria *Borchmann* Ins. 236
 Ectemnaspis *Enderlein* Ins. 369
 Ectenocardiomorpha *Isberg* Moll. 96
 Ectobiella *Adelung* Ins. 462
 Ectogonia *Hampson* Ins. 322
 Eflatounomyia *Rohdendorf* Ins. 404
 Egesta *Ragonot* Ins. 340
 Egotistica *Marwick* Moll. 75
 Ehomalolinus *Bierig* Ins. 212
 Eidmannia *Taeuber* Ins. 426
 Elaphrosyron *Haupt* Ins. 277
 Elapterostomias *Fowler* Pisces 50
 Elasmodophora *Isberg* Moll. 99
 Eldridgea *Bartsch* Moll. 78
 Eldunnia *Curran* Ins. 421
- Elephantichthys *Hubbs & Schultz* Pisces 64
 Ellipsella *Coryell & Rogatz* Crust. 47
 Embiomyia *Aldrich* Ins. 396
 Emphytoeciosoma *Melzer* Ins. 258
 Enchomyia *Aldrich* Ins. 396
 Eneateola *Strand* Ins. 293
 Endeia *McAtee* Ins. 435
 Endophytus *Hering* Ins. 300
 Endorchis *Woodland* Vermes 104
 Enocomia *Ball* Ins. 432
 Entedonella *Girault* Ins. 290
 Enteromyia *Enderlein* Ins. 393
 Entopolypoides *Mayer* Prot. 68
 Eoagapetus *Martynov* Ins. 356
 Eoasthena *Prout* Ins. 332
 Eobates *Drake & Harris* Ins. 428
 Eocader *Drake & Hambleton* Ins. 425
 Eocernina *Gardner & Bowles* Moll. 66
 Eochoristites *Chu* Brach. 22
 Eocyprinus *Sanders* Pisces 52
 Eodecticus *Pongracz* Ins. 482
 Eogrus *Wetmore* Aves 81
 Eolibellula *Kennedy* Ins. 458
 Eoleon *Navas* Ins. 362
 Eomystra *Martynov* Ins. 356
 Eomyzomyia *Evans* Ins. 374
 Eonabis *Handlirsch* Ins. 480
 Eopolymitarceys *Chernova* Ins. 454
 Eopsenulus *Gussakovskii* Ins. 273
 Eosagron *Handlirsch* Ins. 481
 Eothyrsites *Chapman* Pisces 61
 Epacantha *Martynov* Ins. 481
 Epacrochordiceras *Spath* Moll. 115
 Epactosaris *Meyrick* Ins. 346
 Eparchium *Bernhauer* Ins. 212
 Epaulophasia *Townsend* Ins. 396
 Epentastichus *Girault* Ins. 290
 Epheus *Brown* Ins. 256
 Ephyrachyus *Wood* Mam. 67
 Epiclavella *Yu* Crust. 42
 Epicopistis *Turner* Ins. 346
 Epicterodes *Wehrli* Ins. 330
 Epihedestroemia *Spath* Moll. 115
 Epimesophleps *Rebel* Ins. 346
 Epipara *Lapouge* Ins. 204
 Epiparisia *Rebel* Ins. 346
 Epiphyllophila *Townsend* Ins. 396
 Episilindella *Girault* Ins. 288
 Epistominoides *Plummer* Prot. 60
 Eremacantha *Roewer* Arach. 36
 Eremocarabus *Lapouge* Ins. 206
 Eremochelis *Roewer* Arach. 37
 Eremocosta *Roewer* Arach. 37
 Eremognatha *Roewer* Arach. 37
 Eremoparia *Enderlein* Ins. 404
 Eremoperna *Roewer* Arach. 37
 Eremopus *Roewer* Arach. 37
 Eremorhas *Roewer* Arach. 37
 Eremoseta *Roewer* Arach. 37
 Eremospina *Roewer* Arach. 37

- Eremostata Roewer* Arach. 37
Erinaceolus Ognev Mam. 82
Erioprocta Enderlein Ins. 404
Ervioopsis Townsend Ins. 397
Erythrocytonucleophaga Ivanič Prot. 69
Erythronecta Hungerford Ins. 429
Erythropterus Melzer Ins. 256
Ethelontides Meyrick Ins. 340
Etoptychoptera Handlirsch Ins. 480
Eua Pilsbry & Cooke Moll. 92
Euaphonus Hebard Ins. 466
Euarestoides Benjamin Ins. 414
Eubergia Bouvier Ins. 336
Eubracia Enderlein Ins. 404
Eucarcelia Baranov Ins. 397
Eucera Strand Ins. 269
Eucalculus Cotton & Godfrey Moll. 64
Eucromomypha Cleveland Prot. 67
Eucorydon Théry Ins. 231
Eucossonus Brown Ins. 247
Eucyclomela Chen Ins. 264
Eudicranota Alexander Ins. 378
Euflemingites Spath Moll. 115
Eufletcherimyia Townsend Ins. 404
Euglyphella Warthin Crust. 47
Euheresiarches Heinrich Ins. 294
Euleucomyia Townsend Ins. 397
Eulimdana Founikoff Vermes 136
Eulimnophila Alexander 379
Eulomina Růžická Arach. 28
Euloxoceras Miller, Dunbar & Condra
Moll. 115
Eumadasumma Chopard Ins. 466
Eumegachile Friese Ins. 270
Eumegalura Bej-Bienko Ins. 461
Eumyobia Townsend Ins. 397
Eumyiolepta Shannon Ins. 392
Eunerophorus Shchegoleva-Barovs-
kaya Ins. 217
Eunesopeza Alexander Ins. 378
Eunicensis Dubrowsky Coel. 18
Eunotochaeta Townsend Ins. 397
Euophioceras Miller Moll. 115
Euphaenocladus Thienemann Ins. 372
Euplatygaster Fowler Pisces 49
Euplectromorpha Girault Ins. 290
Eupleuroceras Miller & Cline Moll. 115
Euproserpa Fowler Pisces 49
Eupsilopa Malloch Ins. 417
Euriclanculus Cotton & Godfrey Moll.
64
Eurothemis Kennedy Ins. 458
Eurybatorosalia Plavilstshikov Ins. 256
Eurycerus Lohmann Protoch. 5
Eurycreadium Manter Vermes 90
Eurydinotelleus Girault Ins. 289
Euryglossina Cockerell Ins. 269
Eurymelias Kirkaldy Ins. 435
Eurynodes Théry Ins. 231
Euryophrya Enderlein Ins. 404
Eurysonides Strand Ins. 205
Eurystethus Seidlitz Ins. 237
Eutomopterus Lapouge Ins. 203
Eutoxorhina Alexander Ins. 380
Eutrichosiphum Essig & Kuwana Ins.
439
Euxestina Curran Ins. 411
Euxiphopops Fraser-Brunner Pisces 60
Evanchon Goding Ins. 433
Exoctavius Bierig Ins. 212
Exputens Clark Moll. 96
Ezonacerda Kôno Ins. 237
Fabreciella Carpenter Ins. 482
Fabria Milne Ins. 356
Fachus Lucas Ins. 223
Fallacia Stein Ins. 407
Falsotithassa Pic Ins. 233
Falsoxanthalia Pic Ins. 233
Fascioplex Marwick Moll. 77
Fasciospongia Burton Por. 8
Favoidioseris Wells Coel. 21
Favioseris Wells Coel. 21
Fenimorea Bartsch Moll. 78
Fiebrigella Duda Ins. 410
Finlaynema Vigueras Vermes 136
Finotina Uvarov Ins. 471
Fissocantharis Pic Ins. 225
Fistuliphragma Bassler Bry. 34
Fitchiella Van Duzee Ins. 431
Flabellina Gregorio Bry. 37
Flexamia DeLong Ins. 435
Folindusia Berry Ins. 479
Follicrinus Schmidt Echin. 22
Forbachia Albrecht Ins. 332
Formicothrips Priesner Ins. 446
Fretidelpis Iredale & Troughton Mam.
65
Friga Milne Ins. 358
Fruhstorferia Willemse Ins. 471
Fusisyrinx Bartsch Moll. 79
Gaindatherium Colbert Mam. 67
Galapagosia Curran Ins. 397
Galeodarus Roewer Arach. 37
Galeodellus Roewer Arach. 37
Galeodenna Roewer Arach. 37
Galeodessus Roewer Arach. 38
Galeodibus Roewer Arach. 38
Galeodila Roewer Arach. 38
Galeodora Roewer Arach. 38
Galeolamnoides Whitley Pisces 47
Gallowaina Chen Prot. 61
Galtoceras Foerste Moll. 116
Canada Chatterji Vermes 97
Ganopleuron Aldrich Ins. 397
Ganoproctus Aldrich Ins. 397
Gargarius Chatton & Lwoff Prot. 70
Garichthys Whitley Pisces 57
Gasteroclisus Desbrochers Ins. 248
Gemmellarella Parona Por. 6
Geneodes Townsend Ins. 397

- Genimenoides *Henry* Ins. 471
 Genycerus *Andrewes* Ins. 205
 Gerbilophilus *Wagner* Ins. 422
 Gerrothorax *Nilsson* Amph. 30
 Gidhaia *Johri* Vermes 106
 Gigantopocus *Enderlein* Ins. 449
 Gigantothrips *Zimmermann* Ins. 446
 Gillisqualus *Whitley* Pisces 47
 Gilmocrinus *Lauden* Echin. 22
 Gipopeltis *Speijer* Arach. 32
 Girsasia *De Gregorio* Brach. 17
 Girtyites *Coryell & Booth* Crust. 47
 Gisteliodes *Strand* Ins. 240
 Glaphyra *Uvarov* Ins. 472
 Glauertia *Loveridge* Amph. 31
 Globivenus *Coen* Moll. 106
 Glomerata *I. Rensch* Moll. 86
 Glyphotomops *Bartsch* Moll. 79
 Gnathenotacanthus *Fowler* Pisces 56
 Gnathodictus *Fleutiaux* Ins. 228
 Gnathotermes *Kemner* Ins. 450
 Gnummia *Bezzi* Ins. 387
 Gobiodonella *Lindberg* Pisces 62
 Gocevia *Valkanov* Prot. 58
 Godfreyena *Iredale* Moll. 75
 Gomphites *Handlirsch* Ins. 481
 Gomphoceridius *I. Bolivar* Ins. 472
 Gomtiotrema *Sinha* Vermes 85
 Gongroneurina *Enderlein* Ins. 381
 Gongylodes *Turner* Ins. 347
 Goniophorina *Isberg* Moll. 96
 Gordimermis *Heinze* Vermes 128
 Gorgorhynchus *Chandler* Vermes 138
 Grandisquamachela *Fowler* Pisces 53
 Granulasida *de la Escalera* Ins. 233
 Graphocephala *Van Duzee* Ins. 436
 Graptogeitonia *Ruedemann* Coel. 25
 Greta *Hemming* Ins. 305
 Grimsbyoceras *Foerste* Moll. 116
 Gronophora *Borchmann* Ins. 236
 Gryllopsis *Chopard* Ins. 466
 Gurltia *Wolffhügel* Vermes 133
 Gymnosophistis *Meyrick* Ins. 344
 Gynaikothrips *Zimmermann* Ins. 446
 Gypsorhynchus *Broom* Mam. 73
 Gyrimomimus *Parr* Pisces 51
 Gyrolecanites *Spath* Moll. 116
 Gyrophiceras *Spath* Moll. 116
 Hadoceras *Strand* Moll. 116
 Hadramorphocelus *Kleine* Ins. 254
 Hadrobremia *Kieffer* Ins. 365
 Hadropompilus *Arnold* Ins. 277
 Haemorrhoeustris *Townsend* Ins. 393
 Hagedornus *Lucas* Ins. 253
 Haileya *Ruedemann* Vermes 153
 Halisauriceps *Fowler* Pisces 49
 Hallatia *Kay* Crust. 47
 Hamodus *Obruche* Pisces 66
 Hamouchaeta *Blanchard* Ins. 413
 Hapalioloemus *Baranov* Ins. 397
 Hapliothrips *Bagnall* Ins. 446
 Haplograptus *Ruedemann* Coel. 16
 Haplomerinx *Bezzi* Ins. 388
 Haplonota *Frey* Ins. 385
 Haploperla *Navás* Ins. 452
 Harpaloamara *Baliani* Ins. 202
 Hassleria *Jørgensen* Ins. 319
 Hebecephalus *DeLong* Ins. 436
 Hecaloidella *Osborn* Ins. 436
 Hedinobius *Verhoeff* Arach. 47
 Hedinomorpha *Verhoeff* Arach. 50
 Hedygiges *Turner* Ins. 323
 Heikea *Isberg* Moll. 102
 Heintzaspis *Strand* Pisces 48
 Helenacanthus *Bryant* Pisces 46
 Heliaea *Curran* Ins. 397
 Helicometroides *Yamaguti* Vermes 90
 Helicostylus *J. B. Knight* Moll. 71
 Heliogabalus *Leigh-Sharp* Crust. 43
 Heliolydella *Townsend* Ins. 397
 Heliolydellops *Townsend* Ins. 397
 Helioplagia *Townsend* Ins. 397
 Helioplasma *Kettnerová* Coel. 18
 Helleria *Théry* Ins. 231
 Helogria *Borchmann* Ins. 236
 Hemibracia *Enderlein* Ins. 404
 Hemichaeta *Hennig* Ins. 414
 Hemichloreis *Turner* Ins. 332
 Hemicnetha *Enderlein* Ins. 369
 Hemienchytraeus *Černosvitov* Vermes 154
 Hemilecanites *Spath* Moll. 117
 Hemilucilia *Braver* Ins. 404
 Hemimyscale *Burton* Por. 7
 Hemipachymorpha *Kirby* Ins. 465
 Hemiperina *Manter* Vermes 89
 Hemiphormosoma *Mortensen* Echin. 15
 Heptastruma *Weber* Ins. 283
 Heptous *Chin* Protoch. 5
 Heringium *Enderlein* Ins. 416
 Herklotsella *Fowler* Pisces 49
 Herklotsella *Herre* Pisces 54
 Hermesinella *Deflandre* Prot. 65
 Hermesinopsis *Deflandre* Prot. 65
 Hernandeziana *Strand* Por. 6
 Hesperaeschna *Cockerell* Ins. 456
 Heterauletes *Voss* Ins. 246
 Heterisobates *Verhoeff* Arach. 50
 Heteroclyster *Prell* Ins. 242
 Heterogromia *Saedelee* Prot. 58
 Heterolaius *Champion* Ins. 224
 Heterometopia *Melichar* Ins. 437
 Heteronchocotyle *Brooks* Vermes 84
 Heteroperreyia *Schrottky* Ins. 300
 Heterophaea *Cowley* Ins. 457
 Heteroscymnoides *Fowler* Pisces 47
 Heymonsia *Hett* Arach. 46
 Heyneophasia *Townsend* Ins. 397
 Hezekia *de Laubenfels* Por. 6
 Himatidiophila *Rahm* Vermes 129
 Himeniphades *Kóno* Ins. 248

- Hippomonavella Bassler* Bry. 36
Hoabinhia Pic Ins. 259
Hollites Coryell & Sample Crust. 48
Holobremia Kieffer Ins. 365
Holohalaelurus Fowler Pisces 46
Holotylognathus Fowler Pisces 53
Holubia Klouček Arach. 28
Homalogoniella Melichar Ins. 436
Homobremia Kieffer Ins. 365
Homochira Hampson Ins. 326
Homoeoniphades Hustache Ins. 248
Homoeopetalus Arnold & Clark Echin. 15
Homoeopsopha Schürhoff Ins. 244
Homohexamera Townsend Ins. 397
Hopkinsomyia Malloch Ins. 418
Hoplitimya James Ins. 381
Horismenoides Girault Ins. 290
Hormopogonius Arnold Ins. 277
Hovassebria Deflandre Prot. 65
Hovoryctes Prell Ins. 243
Hugoscottia Knisch Ins. 222
Humphreysia Leigh-Sharpe Crust. 43
Hungariella Kutassy Moll. 65
Hussonella Jeannel Ins. 217
Hütheriella Jeannel Ins. 217
Hyaloperina Aurivillius Ins. 326
Hybla McAtee Ins. 436
Hydroptilina Martynov Ins. 357
Hydropyrus Cresson Ins. 417
Hydrosalpinx Barnard Ins. 357
Hygrodiplosis Kieffer Ins. 365
Hygroribates Jacot Arach. 42
Hylopercnas Meyrick Ins. 341
Hyosoma Aldrich Ins. 398
Hypanurida Denis Ins. 477
Hyraulacistis Meyrick Ins. 341
Hypermecees Turner Ins. 341
Hyperoptica Meyrick Ins. 347
Hyperrhytida M. & P. Watson Moll. 90
Hypohepaticola Yamaguti Vermes 87
Hyponephele Muschamp Ins. 305
Hypostrophoneura Munz Ins. 457
Hypotrigona Cockerell Ins. 272
Hypselotriton Wolterstorff Amph. 30
Hypsibracon Meyrick Ins. 353
Hyrceanana Bethune-Baker Ins. 310
Hyridunio Iredale Moll. 102
Hysteroleclithoides Yamaguti Vermes 87
Iasvia Zalessky Ins. 482
Ichthyobelus Melichar Ins. 436
Ichthyodus Harris & Hollingsworth Vermes 158
Icterocodexia Townsend Ins. 398
Ictinogomphus Cowley Ins. 457
Idiataphe Cowley Ins. 458
Idiognathoides Harris & Hollingsworth Vermes 158
Idiolumnophila Alexander Ins. 379
Idiomerus Melzer Ins. 259
Idionympha Cleveland Prot. 67
Idiophya Fraser Ins. 458
Idiopogon Meyrick Ins. 344
Ihleia Metcalf Protoch. 5
Imitatocrinus Schmidt Echin. 22
Immanthe Leigh-Sharpe Crust. 43
Imparatoppia Jacot Arach. 42
Imperia De Gregorio Brach. 19
Inconeuria Klapálek Ins. 452
Incudifera Wehrli Ins. 333
Indocarabus Lapouge Ins. 204
Indocentor Schulze Arach. 46
Indogomphus Fraser Ins. 458
Indoneura Laidlaw Ins. 458
Indopodisma Dornar-Zapolskii Ins. 472
Indostegia Malaise Ins. 300
Indusius Barraud Ins. 374
Innesa Roewer Arach. 30
Inscudderella Caudell Ins. 468
Intermedichneumon Heinrich Ins. 295
Iolana Bethune-Baker Ins. 310
Iomoides Loomis Arach. 50
Iophoroxenus Mello-Leitão Arach. 31
Ipocerus Evans Ins. 436
Ipoella Evans Ins. 436
Ipoides Evans Ins. 436
Ipsocossonus Oke Ins. 253
Irichohalticella Cameron Ins. 287
Irma De Gregorio Brach. 19
Ischnolepis Haughton Pisces 48
Ischnotracheloides Hustache Ins. 248
Isocarceliopsis Baranov Ins. 398
Isoclanculus Cotton & Godfrey Moll. 64
Isodromoides Girault Ins. 288
Isohelea Kieffer Ins. 370
Isopoma Torley Brach. 19
Isotictia Wehrli Ins. 330
Isostreptis Meyrick Ins. 347
Isotobrya Womersley Ins. 477
Isotomodes Axelson Ins. 477
Iteus Dönitz Ins. 313
Ituribius Bergroth Ins. 424
Ixobiodes Fonseca Arach. 42
Jaapiella Ruksaamen Ins. 365
Jajonetta Jones Vermes 88
Japyra Mello-Leitão Arach. 39
Jassoidula Osborn Ins. 436
Jaynesleskia Townsend Ins. 398
Jeannelella Roubal Ins. 217
Jeanvoinea Pic Ins. 259
Jembra Metcalf & Horton Ins. 432
Jenkinshelia Macfie Ins. 370
Jilijapa Melichar Ins. 436
Johnsonina Myers Pisces 66
Jorumella McAtee Ins. 436
Joubinia Bürger Vermes 107
Jugodina Schumacher Ins. 431
Jugurthia Oberthür Ins. 323
Juquianicia Townsend Ins. 404
Jyrvia Milne Ins. 356

- Kahelia Turati* Ins. 347
Kaiella Hustache Ins. 248
Kansua Uvarov Ins. 468
Kansupus Verhoeff Arach. 50
Kapnesolenia de Laubenfels Por. 6
Karanga Moore Ins. 313
Karelosteus Obruche Pisces 45
Karnyothrips Watson Ins. 447
Karotomorpha Travis Prot. 67
Karschiogomphus Schouteden Ins. 458
Kartabia Curran Ins. 413
Kashmirothys Lundblad Arach. 45
Kasr Khalil Vermes 95
Kataschisia Wehrli Ins. 333
Katipo Evans Ins. 436
Kawasakiceras Kobayashi Moll. 117
Kayoceras Foerste Moll. 117
Kemticthys Cuvillier & Jolezud Pisces 58
Kerionammina Moreman Prot. 61
Kermococcus Silvestri Ins. 443
Kesselia Curran Ins. 421
Khandalina Navás Ins. 357
Kiaeroceras Strand Moll. 117
Kibisidytes Jepps Prot. 58
Kidderia Raabe Prot. 70
Kioeria Størmer Arach. 30
Kirkbyella Coryell & Booth Crust. 48
Kirmania Uvarov Ins. 472
Kivua Forsiis Ins. 300
Kivuanella Hustache Ins. 248
Klakesia Ruedemann Vermes 153
Kleinella Strand Ins. 254
Knightoceras Miller & Owen Moll. 117
Knoxina Coryell & Rogatz Crust. 48
Kochliopus Verhoeff Arach. 50
Kolosvárya Strand Arach. 32
Kopidodon Weitzel Mam. 78
Koraipsis Kobayashi Arach. 29
Kosciuscola Sjöstedt Ins. 472
Kosempomyiella Baranov Ins. 398
Kotoceras Kobayashi Moll. 117
Kozlowskia Fredericks Brach. 17
Kraatziana Pic Ins. 237
Kratochvila Strand Arach. 34
Kraussaria Uvarov Ins. 472
Kringana Moore Ins. 306
Krollus Lucas Ins. 233
Krygeriola Nowicki Ins. 291
Labidiophasma Carl Ins. 465
Laccagathis Watanabe Ins. 298
Lachesis Oberthür & Houlbert Ins. 305
Laeissa Navás Ins. 452
Laevicephalus DeLong Ins. 435
Lagriella Borchmann Ins. 236
Lagriopsis Borchmann Ins. 236
Lallemandana China Ins. 432
Lamelligomphus Fraser Ins. 458
Laocalandra Heller Ins. 248
Laodaria Heller Ins. 248
Laosia Chen Ins. 264
Laostates Heller Ins. 248
Larandopsis Chopard Ins. 466
Larium De Gregorio Brach. 14
Lasiochlorops Duda Ins. 416
Lasionalia Curran Ins. 398
Latzelipus Verhoeff Arach. 51
Lauthia Kieffer Ins. 365
Laxabilla Sjöstedt Ins. 472
Laxina Curran Ins. 389
Learedius Price Vermes 85
Lecanophrya Kahl Prot. 71
Lecogaster White Ins. 381
Lecomymia White Ins. 381
Leechia Röber Ins. 305
Leiocephalikon M. C. Steen Amph. 30
Leioleotris Fowler Pisces 61
Leiostegioides Kobayashi Arach. 29
Lekanichthys Brough Pisces 48
Lemurolimnas Salomonsen Aves 77
Lensia Totton Coel. 14
Leocomia Ball Ins. 432
Leopoldina Hering Ins. 319
Lephelisca Barnes & Lindsey Ins. 309
Lepidechidna Meyrick Ins. 348
Lepidobremia Kieffer Ins. 365
Lepidocyrtodes Schött Ins. 477
Lepidodiplosis Kieffer Ins. 365
Leptamorphocephalus Kleine Ins. 254
Leptecho Barnard Ins. 357
Lepsius De Gregorio Brach. 18
Leptodemasius Voss Ins. 249
Leptodistastemus Bernhauer Ins. 212
Leptospironympha Cleveland Prot. 67
Leptolaeops Fowler Pisces 65
Leptorachis Mitchell Ins. 270
Lepyropsis Metcalf & Horton Ins. 432
Lessonia Labbé Moll. 80
Lestodelphys Tate Mam. 63
Lestoros Oehser Mam. 64
Lethus Rehn Ins. 472
Letzuana Chen Ins. 264
Leucochloë Röber Ins. 312
Leucothrix Olivier Ins. 226
Leucotrichia Mosly Ins. 358
Leurozancle Turner Ins. 348
Leverella Baranov Ins. 398
Levicamera Grabau Brach. 14
Liadopsylla Handlirsch Ins. 480
Liassogomphus Cowley Ins. 481
Libyhipparion Joleaud Mam. 68
Lilaeina Borgmeier Ins. 382
Limnopneuma Strand Ins. 365
Limnopsares Meyrick Ins. 341
Lindstroemoceras Miller Moll. 118
Lintoniella Yamaguti Vermes 102
Lioclemmus Jeannel Ins. 200
Lioscinella Duda Ins. 416
Liosystates Hustache Ins. 252
Lipararchis Meyrick Ins. 341
Liparocystis M. & P. Watson Moll. 89

- Lipoptilocnema Townsend* Ins. 404
Lissaloma Manter Vermes 93
Lissodoris Odhner Moll. 81
Lissosculpta Heinrich Ins. 295
Lissosterna Bezzi Ins. 408
Listriapha Enderlein Ins. 408
Lithopoecilus Beaufort Pisces 57
Litomegachile Mitchell Ins. 270
Lobochoetotarsus Verhoeff Arach. 48
Lochmostylia Hendel Ins. 411
Loedelia Lucas Ins. 224
Loensus Lucas Ins. 234
Lohmanderodesmus Schubart Arach. 50
Lomaphorus Manter Vermes 93
Lonchegaster White Ins. 381
Longichneumon Heinrich Ins. 294
Longiprimitarsus Eichelbaum Ins. 213
Loomelania Mathews Aves 78
Lopaphodes Karny Ins. 465
Lophagenia Banks Ins. 277
Lophaspis Brotzen Pisces 45
Lophobela Turner Ins. 348
Lophocnema Turner Ins. 344
Lopholagria Borchmann Ins. 236
Lophopeltis Hermann Ins. 386
Lophopholis Smith & Deran Amph. 35
Lophozancla Turner Ins. 348
Lophybus Hermann Ins. 386
Lovenilampas Maury Echin. 16
Löwodiplosis Kieffer Ins. 365
Loxinum Navás Ins. 358
Loxopseudochromis Fowler Pisces 58
Luchuconulus Pilsbry Moll. 85
Lundstroemia Kieffer Ins. 372
Lutaphis Shinji Ins. 440
Lutzinema Lent & Freitas Vermes 132
Lutzomyia Curran Ins. 408
Lycotharses Prell Ins. 242
Lygaeomyia Aldrich Ins. 398
Lyperocarabus Lapouge Ins. 206
Lyrocystis Watson Moll. 89
Lytorhodites Kieffer Ins. 291
- Machilinus Silvestri* Ins. 475
Macracantha Kirby Ins. 465
Macrocephenchelys Fowler Pisces 55
Macrochromodora Kreis Vermes 121
Macroclanculus Cotton & Godfrey Moll. 64
Macrodesma Isberg Moll. 102
Macroglenea Aurivillius Ins. 258
Macrogynium Meserve Vermes 83
Macromelandria Curran Ins. 410
Macromerella Banks Ins. 277
Macrophthalmothrips Karny Ins. 447
Macrohamphosodes Fowler Pisces 66
Macrospironympha Cleveland Prot. 67
Macrurocyttus Fowler Pisces 58
Madsenia Kahl Prot. 70
Magnacetabulum Yamaguti Vermes 88
Malachiella Malaise Ins. 300
- Malaciotis Meyrick* Ins. 341
Malaisea Forsius Ins. 300
Mallada Navás Ins. 362
Mallocharia Curran Ins. 408
Mallochomacquartia Townsend Ins. 398
Mallochomyza Hendel Ins. 410
Mallophorina Curran Ins. 386
Malvoliophis Whitley Pisces 56
Mammosum De Gregorio Brach. 14
Mandarinopus Verhoeff Arach. 50
Manobidia Chen Ins. 264
Manoblatta Pruvost Ins. 482
Mantra Leigh-Sharpe Crust. 43
Mapiria Edwards Ins. 367
Mapolamia Whitley Pisces 47
Marshalliella Kieffer Ins. 286
Marushachia Matsumura Ins. 329
Mascarenhia Alluaud Ins. 206
Masenia Chatterji Vermes 92
Masisia Arnold Ins. 277
Mastax Kleine Ins. 255
Matinangarches Heinrich Ins. 294
Matta Crosby Arach. 32
Mayomyia Malloch Ins. 419
Mayrinia Horváth Ins. 424
Mazzia Khalil & Vogelsang Vermes 134
Medeella, Wiontzek Moll. 108
Medinophyllum Hancock Ins. 472
Megaglossoceras Miller, Dunbar
Condra Moll. 118
Megalacron I. Rensch Moll. 87
Megalepocephalus Fowler Pisces 49
Megaleuctra Neave Ins. 453
Megapera Manter Vermes 92
Megaskamma Attems Arach. 50
Megathylacus Woodland Vermes 104
Megatomostethus Takeuchi Ins. 301
Megatracheloides Lucas Ins. 249
Megatrichoniscus Brian Crust. 36
Megenteron Manter Vermes 93
Meghimatium Hoffmann Moll. 85
Megilla Strand Ins. 270
Megochterus Jaczewski Ins. 428
Mehraorchis Srivastava Vermes 96
Meinertellus Silvestri Ins. 475
Melanolomina Curran Ins. 411
Melanometopia Séguéy Ins. 404
Melanorophasia Townsend Ins. 398
Melanosarus Mitchell Ins. 270
Melapedalion Fowler Pisces 56
Meleageria Sagarra Ins. 311
Melicharella Goding Ins. 433
Meliponula Cockerell Ins. 272
Melitoides Gurjanova Crust. 37
Mellachnus Aldrich Ins. 398
Mellia Meyrick Ins. 342
Menesia Willemse Ins. 472
Menkokia Heinrich Ins. 295
Menziozia Goidanich Ins. 297
Meraca Enderlein Ins. 383
Meragenia Banks Ins. 277

- Mercetina Bolivar y Pieltain* Ins. 288
Merinthichthys Rivero Pisces 56
Meristacarus Grandjean Arach. 42
Merobates Duda Ins. 416
Merodiscus Jeannel Ins. 217
Meroscolex Černosvitov Vermes 155
Meroviscosia Kreis Vermes 125
Merscalpellus Whitley Protoch. 6
Mesagriochorus Peterson Mam. 69
Mesamotura Girault Ins. 288
Mesaraelia Blanchard Ins. 413
Mesoacidalia Reuss Ins. 306
Mesodonta Matsumura Ins. 329
Mesodryas Reuss Ins. 308
Mesofeltria Uchida Arach. 45
Mesomicropus Werner Ins. 464
Mesophaea Fraser Ins. 458
Mesorgerius Kuznetsov Ins. 430
Mesothrips Zimmermann Ins. 447
Mesotriton Bourret Amph. 30
Mestochoroideus Girault Ins. 290
Metacleobis Roewer Arach. 88
Metadenopus Šulc Ins. 444
Metahedenstroemia Spath Moll. 118
Metallopæus Malaise Ins. 301
Metaparoncholaemus Coninck & Stek-hoven Vermes 125
Metapenta Bezzi Ins. 387
Metaphalacroma Tai & Skogsberg Prot. 65
Metaphrynella Parker Amph. 32
Metarchidiskodon Osborn Mam. 67
Metasinella Denis Ins. 477
Metasolpuga Roewer Arach. 28
Meterioptera Alexander Ins. 378
Meteusiroides Pirlot Crust. 37
Metisella Hemming Ins. 316
Metussuria Spath Moll. 118
Mexicotarsus Verhoeff Arach. 48
Michaelseniella Černosvitov Vermes 154
Micragenia Arnold Ins. 277
Micramorphocephalus Kleine Ins. 255
Micrandria Heinrich Ins. 295
Micrapemon Edwards Ins. 367
Micraroa Hampson Ins. 327
Microcarcelia Baranov Ins. 398
Microcephalocoëgrus Fowler Pisces 56
Microchaetonops Townsend Ins. 398
Microcharon Karaman Crust. 35
Microclanculus Cotton & Godfrey Moll. 64
Microcrepis Chen Ins. 264
Microcytos Pic Ins. 259
Microdiopsis Curran Ins. 416
Microdontella Strand Ins. 329
Microdontostomias Fowler Pisces 50
Microlanguria Lewis Ins. 219
Micromarsupium Deflandre Prot. 65
Micromasiphya Townsend Ins. 399
Microniphargus Schellenberg Crust. 37
Micronomus Iredale & Troughton Mam. 83
Micropelopia Thienemann & Zavřel Ins. 372
Microperria Kieffer Ins. 366
Microphysogobio Mori Pisces 53
Micropodisma Dovnar-Zaploskii Ins. 472
Microselia Schmitz Ins. 390
Microtownsendia Curran Ins. 399
Microzegris Alphéraky Ins. 312
Mikomya Kieffer Ins. 366
Millardia Curran Ins. 389
Mimacheres Leigh-Sharpe Crust. 43
Mimizuku Hachisuka Aves 86
Mimoscinis Malloch Ins. 416
Minagenia Banks Ins. 278
Minotocyphus Banks Ins. 277
Mintholeskia Townsend Ins. 399
Miramella Dovnar-Zapolskii Ins. 472
Miramia Uvarov Ins. 472
Miroceramia Günther Ins. 465
Mischoderus Handlirsch Ins. 480
Misocyclops Kieffer Ins. 286
Mixocetus Kellogg Mam. 65
Mnesarete Cowley Ins. 458
Moessonia Willems Ins. 472
Mokrzeckia Mokrzecki Ins. 289
Molinostrongylus Skarbilovitch Vermes 132
Molstyela Oka Protoch. 5
Monachoptilas Meyrick Ins. 348
Moninostemma Kieffer Ins. 286
Monobremia Kieffer Ins. 366
Monocotyloides Johnston Vermes 83
Monohalea Kieffer Ins. 371
Monomacrodon Cushman Ins. 295
Monorhipidia Alexander Ins. 380
Monotanytarsus Kieffer Ins. 372
Monothoracius Werneck Ins. 449
Montalbania Fowler Pisces 49
Montandonius Melin Ins. 428
Monticuliporella Bassler Bry. 35
Moorites Coryell & Billings Crust. 48
Morgania Kahl Prot. 70
Morochara Banks Ins. 278
Mothon Semenov-Tian-Shanskiĭ & Medvedev Ins. 240
Mucrometopia Melichar Ins. 437
Mucrospirifer Grabau Brach. 22
Mucrotherium E. v. Huene Mam. 63
Mulsenella Lucas Ins. 221
Mummuicella Roewer Arach. 38
Mummuciona Roewer Arach. 38
Mummucipes Roewer Arach. 38
Mushya Kato Ins. 432
Musperia Sanders Pisces 50
Mycetodiplosis Kieffer Ins. 366
Myersina Herre Pisces 62
Myersina Wisniewski Vermes 140
Myersiscus Fowler Pisces 61
Myiofijia Baranov Ins. 399

- Myiotabanus Lutz* Ins. 382
Myocnemella Girault Ins. 288
Myopella Malloch Ins. 408
Myrmeleotettix I. Bolivar Ins. 472
Myrmicotrombium Womersley Arach. 43
Myrmopalpella Strcke Ins. 282
Myspoleo Barnard Ins. 358
Mystax Caradja Ins. 348
Mytonolagus Burke Mam. 72
Myxocarcelia Baranov Ins. 399
Myzophorus Woodland Vermes 103
Myzoxenus Manter Vermes 92

Nagandopsis Matsumura Ins. 329
Naldanus Navs Ins. 363
Nannosetulia Enderlein Ins. 404
Narochara Banks Ins. 278
Nata Watson Moll. 90
Natella M. & P. Watson Moll. 90
Neachorutes Womersley Ins. 477
Neallogaster Cowley Ins. 458
Necrocleptes Shchegoleva-Barovskaya Ins. 217
Necrophorindus Shchegoleva-Barovskaya Ins. 217
Necrophoriscus Shchegoleva-Barovskaya Ins. 217
Necropter Shchegoleva-Barovskaya Ins. 217
Necrosciodes Karny Ins. 465
Necymylacris Pruvost Ins. 482
Negasilus Curran Ins. 386
Nehornius Navs Ins. 363
Neiva Melichar Ins. 436
Nematophila Travassos Vermes 99
Nematostrigea Sandground Vermes 86
Nemeyus Navs Ins. 363
Nemomydas Curran Ins. 384
Neoacidalia Reuss Ins. 306
Neoantistia Gertsch Arach. 33
Neobellamira Swaine & Hopping Ins. 256
Neobryocheta Hustache Ins. 249
Neocallipterus van der Goot Ins. 440
Neocanace Curran Ins. 417
Neocleobis Roewer Arachn. 38
Neodiaplebus Kstner Ins. 468
Neodiplocampta Curran Ins. 387
Neodryocoetes Eggers Ins. 253
Neogaster ernosvitov Vermes 156
Neogypidula Licharew Brach. 14
Neohemithyris Yabe & Hatai Brach. 20
Neolachnaphis Shinji Ins. 440
Neolecateria Alexander Ins. 379
Neolestremia Mani Ins. 366
Neoliparina Schultze Ins. 327
Neomegachile Mitchell Ins. 270
Neomegastigmus Girault Ins. 287
Neomphalia Spaeth Ins. 266
Neopanorpa Weele Ins. 364
Neoparlaspis Hempel Ins. 444

Neopetalia Cowley Ins. 458
Neophlebia Navs Ind. 454
Neophorella Womersley Ins. 477
Neophricadothyris Licharew Brach. 22
Neopristilophus Buysson Ins. 228
Neopromachus Giglio-Tos Ins. 465
Neopyrgota Hendel Ins. 411
Neoradiolites Milovanovic Moll. 108
Neorhinotora de Souza Lopes Ins. 412
Neorhyncolus Voss Ins. 249
Neosema Rebel Ins. 324
Neosimplicius Carpenter Ins. 482
Neosminthurus Mills Ins. 477
Neospirochis Price Vermes 85
Neosprynchotus Schrottky Ins. 295
Neostilobezzia Goetghebuer & Lenz Ins. 371
Neosyntormon Curran Ins. 389
Neotanygastrella Duda Ins. 419
Neotetrum Kennedy Ins. 458
Neothenea de Laubenfels Por. 6
Neotuberculatus van der Goot Ins. 440
Neoverres Hincks Ins. 239
Neoxenapates Forsius Ins. 301
Neoxynops Townsend Ins. 399
Nephochaetopteryx Townsend Ins. 399
Nepogomphus Fraser Ins. 459
Nerterhaptomenus Hardy Ins. 386
Nesanassa Pilsbry & Cooke Moll. 92
Nescicroa Karny Ins. 465
Nesermnus Marshall Ins. 249
Nesiberus Haas Moll. 88
Nesiophasma Gnther Ins. 465
Nesiotizetes Jacot Arach. 43
Nesolordops Marshall Ins. 250
Nesonecroporus Shchegoleva-Barovskaya Ins. 217
Nesonecropter Shchegoleva-Barovskaya Ins. 217
Neucentropus Martynov Ins. 358
Neurothaumasia Le Marchand Ins. 349
Neyraia Joyeux & Timon-David Vermes 106
Nezuela Navs Ins. 363
Nicolla Wyszniowski Vermes 91
Niepeltia Strand Ins. 349
Ninominus Lindberg Ins. 425
Nippocarabus Lapouge Ins. 206
Nipponiphades Kno Ins. 250
Nipponithyris Yabe & Hatai Brach. 28
Nipporhynchus Chandler Vermes 138
Nolganema Navs Ins. 358
Nomadacris Uvarov Ins. 473
Nomimoscolex Woodland Vermes 104
Nonpropodeum Heinrich Ins. 295
Nordostrema Issaitschikov 95
Notabilia Mordvilko Ins. 440
Notasymmetron Whitley Protoch. 6
Nothogria Borchmann Ins. 237
Nothomyrmecia Clark Ins. 284
Notodytes Aldrich Ins. 399

- Notomanes *Aldrich* Ins. 399
 Notorabula *Whitley* Pisces 55
 Notoschoenomyza *Malloch* Ins. 408
 Notosciobia *Chopard* Ins. 467
 Notothrombium *Storkán* Arach. 43
 Notoxyleborus *Schedl* Ins. 253
 Noya *Navás* Ins. 454
 Nupedia *Karl* Ins. 409
 Nyctesperus *Breuning* Ins. 260

 Obrimona *Strand* Arach. 34
 Ochoterenaia *Chavarriá* Prot. 70
 Ochotrichia *Mosely* Ins. 358
 Octomacrum *Mueller* Vermes 83
 Odhnerium *Yamaguti* Vermes 88
 Odontochrydium *Brauns* Ins. 281
 Odontofroggata *Ishii* Ins. 287
 Odontopodisma *Dovnar-Zapolski* Ins. 473
 Odontostomops *Fowler* Pisces 51
 Odontotipula *Alexander* Ins. 380
 Odontoxenia *Schmitz* Ins. 391
 Oedoparena *Curran* Ins. 410
 Oestroparea *Séguy* Ins. 410
 Ogygitoides *Kobayashi* Arach. 29
 Okajimaia *Suenaga* Ins. 440
 Okikurumimus *Kôno* Ins. 250
 Oliaronus *Ball* Ins. 430
 Oltacola *Roewer* Arach. 38
 Omagua *Melichar* Ins. 437
 Omeia *Chen* Ins. 284
 Omestes *Andrewes* Ins. 206
 Ommasicera *Townsend* Ins. 399
 Oncerozancla *Turner* Ins. 349
 Oncholaimium *Cobb* Vermes 125
 Oncodiscus *Yamaguti* Vermes 103
 Oncodosia *Edwards* Ins. 388
 Onestia *McLearn* Moll. 107
 Oniromyia *Bezzi* Ins. 388
 Onysius *Brown* Ins. 237
 Ootetrastichella *Girault* Ins. 290
 Oparba *Roewer* Arach. 38
 Oparbica *Roewer* Arach. 38
 Oparbona *Roewer* Arach. 38
 Opecoelina *Manter* Vermes 91
 Ophioglyphoida *Chapman* Echin. 20
 Ophioika *Stephensen* Crust. 44
 Ophirion *Townsend* Ins. 399
 Ophirodexia *Townsend* Ins. 399
 Ophirosturmia *Townsend* Ins. 399
 Opio *Evans* Ins. 437
 Opisthomitus *Dubosq & Grassé* Prot. 67
 Opomydas *Curran* Ins. 384
 Opsispseudochromis *Fowler* Pisces 58
 Oreinotherium *Russell* Mam. 68
 Oreocharis *Brown* Ins. 250
 Orinomana *Strand* Arach. 34
 Ornithocoris *Pinto* Ins. 426
 Ornithoponus *Aldrich* Ins. 420
 Orohoughia *Townsend* Ins. 399
 Orophicephalus *Hoepen* Amph. 33

 Oroptera *Borchmann* Ins. 237
 Orphninoirichia *Mosely* Ins. 358
 Ortalimya *Curran* Ins. 411
 Orthaspis *Brotzen* Pisces 45
 Orthochirista *Sjöstedt* Ins. 473
 Orthomeria *Kirby* Ins. 465
 Orthozancla *Turner* Ins. 324
 Oshimaia *Sugimoto* Vermes 137
 Osteoborus *Stirton & Vanderhoof* Mam. 80
 Ostracoberyx *Fowler* Pisces 58
 Ostreavicula *Blanckenhorn* Moll. 97
 Oswaldostrongylus *Lent & Freitas* Vermes 132
 Ouelletia *Curran* Ins. 405
 Oxycentropsis *Schauberger* Ins. 206
 Oxygomphus *Tillyard* Ins. 459
 Oxylopsalia *Curran* Ins. 399
 Ozakia *Wiszniewski* Vermes 91

 Pachokeraian *Willemse* Ins. 473
 Pachycheirus *Chamberlin* Arach. 39
 Pachycladius *Kieffer* Ins. 372
 Pachycosmina *Séguy* Ins. 405
 Pachyelater *Lesne* Ins. 229
 Pachygraphiops *Townsend* Ins. 399
 Pachylomerides *Strand* Arach. 32
 Pachypellina *Burton* Por. 7
 Pachypoisma *Dovnar-Zapolski* Ins. 473
 Pachythecella *Bassler* Bry. 36
 Paeckelmanella *Licharev* Brach. 22
 Pagdenia *Miller* Ins. 473
 Pagdenia *Théry* Ins. 231
 Palaeactinia *Ruedemann* Coel. 23
 Palaeaeschna *Meunier* Ins. 481
 Palaeosox *Voigt* Pisces 50
 Palaeotragiscus *Broom* Mam. 71
 Palaeotuba *Eisenack* Coel. 14
 Palmaricoccus *Stickney* Ins. 444
 Palmeniola *Forsius* Vermes 81
 Palmerinella *Bermúdez* Prot. 62
 Palpozenillia *Townsend* Ins. 399
 Pamirella *Enderlein* Ins. 405
 Panamenia *Curran* Ins. 419
 Pandellea *Enderlein* Ins. 405
 Pangullia *Navás* Ins. 359
 Panoquina *Hemming* Ins. 317
 Panotima *Meyrick* Ins. 342
 Pantolambdodon *Granger & Gregory* Mam. 66
 Pantostomus *Bezzi* Ins. 388
 Papyrichthys *Smith* Pisces 63
 Parabasileus *Kobayashi* Arach. 29
 Parabathylaimus *Coninck & Stekhoven* Vermes 127
 Parabothriocephaloides *Yamaguti* Vermes 103
 Parabothriocephalus *Yamaguti* Vermes 103
 Parabotryllophilus *Leigh-Sharpe* Crust. 44

- Parabrodia* *Carpenter* Ins. 483
Parabunaopsis *Bouvier* Ins. 336
Paracanachus *Carl* Ins. 465
Paracarabus *Lapouge* Ins. 206
Paracentristis *Meyrick* Ins. 342
Paraceras *Wagner* Ins. 422
Parachalcerins *Girault* Ins. 288
Parachariesthes *Breuning* Ins. 259
Parachloridolum *Plavilstshikov* Ins. 256
Parachrysoma (sic) *Becker* Ins. 399
Paracrochordiceras *Spath* Moll. 119
Paraeryptogonimus *Yamaguti* Vermes 92
Paractenodes *Théry* Ins. 231
Paractinochaeta *Townsend* Ins. 399
Paracyclolites *Wells* Coel. 23
Paracycloseris *Wells* Coel. 23
Paradasynus *China* Ins. 425
Paradeontacylix *McIntosh* Vermes 85
Paradiaphleboopsis *Kästner* Ins. 468
Paradicranota *Alexander* Ins. 378
Paradiscogaster *Yamaguti* Vermes 93
Paradistega *Forsius* Ins. 301
Paradjidaumo *Burke* Mam. 74
Paradoxopsyllus *Miyajima & Koidsumi* Ins. 422
Paradujardinia *Travassos* Vermes 131
Paraëdes *Edwards* Ins. 376
Paraegialoalaimus *Allgén* Vermes 121
Paraemigus *I. Bolivar* Ins. 473
Paragaricocrinus *Yakolev* Echin. 23
Parageloemyia *Hendel* Ins. 411
Paragomphus *Cowley* Ins. 459
Paragraciella *Breuning* Ins. 259
Paragyliauchen *Yamaguti* Vermes 100
Parahealdia *Coryell & Cuskey* Crust. 48
Parahedenstroemia *Spath* Moll. 119
Parahelicops *Bourret* Amph. 38
Parajacobsonina *Hanitsch* Ins. 463
Paralepidophyllum *Yamaguti* Vermes 95
Paraleptophlebia *Lestage* Ins. 454
Paralieberkühnia *Saeleleer* Prot. 58
Paraliodrosophila *Duda* Ins. 419
Paralister *Bickhardt* Ins. 218
Paralleloporella *Strand* Coel. 18
Paramedoria *Enderlein* Ins. 405
Paramegachile *Friese* Ins. 270
Parametacoceras *Miller & Owen* Moll. 119
Parametopia *Melichar* Ins. 437
Paramodiola *Isberg* Moll. 97
Paramonocotyle *Johnston* Vermes 83
Paramontia *Lawrence* Arach. 40
Paramorphocerus *Voss* Ins. 250
Paramytilarca *Isberg* Moll. 100
Parangularia *Kutassy* Moll. 76
Paranortonia *Bertoni* Ins. 279
Paranthidium *Friese* Ins. 268
Paranthracina *Paramonov* Ins. 388
Paranticopsis *Wood-Mason & de Nicéville* Ins. 313
Parantorchis *Yamaguti* Vermes 93
Paraoncidium *Labbé* Moll. 81
Paraorus *Voss* Ins. 250
Paraparga *I. Bolivar* Ins. 473
Paraperonia *Labbé* Moll. 81
Paraperreyia *Schrottky* Ins. 301
Paraphormosoma *Mortensen* Echin. 16
Paraphortica *Duda* Ins. 419
Paraphrictidea *Willemse* Ins. 468
Paraphymatodes *Plavilstshikov* Ins. 257
Paraplanes *Verhoeff* Arach. 48
Paraplectonema *Strand* Vermes 124
Paraplutella *Rebel* Ins. 349
Parapolybothrus *Verhoeff* Arach. 48
Parapolyglossa *Brauns* Ins. 271
Parapristiurus *Fowler* Pisces 46
Paraprotosalanx *Fang* Pisces 49
Paraproctotrema *Yamaguti* Vermes 94
Parapsilota *Hardy* Ins. 392
Parapsyche *Betten* Ins. 359
Parapucaya *Prell* Ins. 243
Paraquimperia *Baylis* Vermes 131
Pararhabdophis *Bourret* Amph. 38
Pararhaphoxya *Burton* Por. 8
Parasalius *Banks* Ins. 278
Paraschelobates *Jacot* Arach. 43
Parascoceras *Miller* Moll. 119
Parasinella *Bonet* Ins. 476
Parasolymus *Breuning* Ins. 259
Parasphaerolaimus *Ditlevsen* Vermes 122
Paraspidites *Spath* Moll. 119
Parastalita *Absolon & Kratochvil* Arach. 32
Parasterrhurus *Manter* Vermes 88
Parastyra *Pirlot* Crust. 38
Paratraginops *Hendel* Ins. 420
Paratriacanthodes *Fowler* Pisces 66
Paratrachobius *da Costa Lima* Ins. 421
Paratrachosalius *Arnold* Ins. 279
Parce *Oberthür & Houlbert* Ins. 306
Paregnatius *Uvarov* Ins. 473
Pareiobledius *Bernhauer* Ins. 211
Parepicerella *Hendel* Ins. 411
Parepiphylax *Hustache* Ins. 250
Pareteronychus *Prell* Ins. 243
Pareuxoa *Forbes* Ins. 324
Parhomopterus *Lapouge* Ins. 206
Parhoplognathus *Ohau* Ins. 242
Parinostemma *Kieffer* Ins. 286
Pariogymnia *Enderlein* Ins. 405
Pariosticha *Enderlein* Ins. 405
Parisangulocrinus *Schmidt* Echin. 23
Parmularius *Hopwood* Mam. 71
Paroesophagostomum *Schneidegger & Kreis* Vermes 131
Paromela *Lhoste* Ins. 263
Paronella *Wiontzek* Moll. 108
Parophrida *Chen* Ins. 264

- Paropsimorpha *Lhoste* Ins. 263
 Paropsivora *Malloch* Ins. 400
 Parorgerius *Melichar* Ins. 430
 Parowenites *Spath* Moll. 119
 Parussuria *Spath* Moll. 119
 Patillalia *Curran* Ins. 400
 Patiscana *Strand* Arach. 33
 Pauripo *Evans* Ins. 437
 Payuella *Grabau* Brach. 19
 Pedesta *Hemming* Ins. 317
 Pediodectes *Rehn & Hebard* Ins. 468
 Pedunculacetabulum *Yamaguti* Vermes 90
 Pelagonemella *Kreis* Vermes 126
 Pelagopenaeus *Burkenroad* Crust. 34
 Pelagopleura *Lohmann & Bückmann* Protoch. 5
 Pelex *Cresson* Ins. 417
 Pelixia *Curran* Ins. 400
 Pellopedon *Bruner* Ins. 473
 Pelomyiella *Hendel* Ins. 420
 Pelptiopsis *Valdés Ragues* Ins. 431
 Peltharpadon *Fowler* Pisces 50
 Pelycops *Aldrich* Ins. 400
 Penehuleria *Beamer* Ins. 437
 Penestirellus *Beamer & Tuthill* Ins. 437
 Pentacamptus *Willey* Crust. 42
 Pentapria *Kieffer* Ins. 286
 Penthocrates *Meyrick* Ins. 349
 Periclita *Turner* Ins. 349
 Peringus *Navás* Ins. 363
 Peristasisea *Villeneuve* Ins. 405
 Perostrongylus *Schlegel* Vermes 133
 Peruvia *Olsson* Moll. 81
 Petalocotyle *Ozaki* Vermes 90
 Petroplax *Barnard* Ins. 359
 Petroschmidtia *Taranec* Pisces 63
 Petrothrincus *Barnard* Ins. 359
 Pfeifferula *Wehrli* Ins. 334
 Phaenobremia *Kieffer* Ins. 366
 Phaenolauthia *Kieffer* Ins. 366
 Phaenoncholaimus *Kreis* Vermes 126
 Phaenosarus *Mitchell* Ins. 270
 Phaeodema *Aldrich* Ins. 400
 Phalaenosoma *Rippon* Ins. 315
 Phanagenia *Banks* Ins. 278
 Phanopeltis *Mabille* Ins. 308
 Phasiatacta *Townsend* Ins. 400
 Phaulocystis *Watson* Moll. 89
 Philorus *Kellogg* Ins. 369
 Philotheroides *Strand* Arach. 36
 Phintodes *Strand* Arach. 36
 Pholeuonidius *Jeannel* Ins. 217
 Phylacoprosodes *Schuster* Ins. 234
 Phyllodiplosis *Kieffer* Ins. 366
 Phyllogramma *Pellegrin* Pisces 55
 Phyllomela *Lhoste* Ins. 263
 Phyllonereis *Augener* Vermes 147
 Phylloneura *Fraser* Ins. 459
 Phyllopais *Hering* Ins. 301
 Phyllopecta *Riley* Ins. 438
 Phyllotrema *Yamaguti* Vermes 90
 Phyllovates *Kirby* Ins. 464
 Phylomyiacris *Pruvost* Ins. 482
 Physemops *Cresson* Ins. 417
 Physoctonus *Mello-Leitão* Arach. 31
 Physogria *Borchmann* Ins. 237
 Physothrips *Karny* Ins. 447
 Phytotendipes *Goetghebuer* Ins. 372
 Pinnacanthus *Bryant* Pisces 46
 Pintneriella *Yamaguti* Vermes 102
 Piratasta *Leigh-Sharpe* Crust. 44
 Pirgula *De Gregorio* Brach. 19
 Pityoborus *Blackman* Ins. 253
 Placopsilinella *Earland* Prot. 62
 Plagiopsis *Cresson* Ins. 417
 Plagiocelis *Bickhardt* Ins. 218
 Planapheretima *Michaelsen* Vermes 157
 Planomyia *Aldrich* Ins. 400
 Plasmiorchis *Mehra* Vermes 85
 Plastotorymus *Masi* Ins. 287
 Platecizotes *Ferrière* Ins. 289
 Platybregmus *Fisher* Ins. 223
 Platycobboldia *Townsend* Ins. 393
 Platycoccus *Stickney* Ins. 444
 Platygonia *Melichar* Ins. 437
 Platypareia *Muir* Ins. 431
 Platyperas *Enderlein* Ins. 405
 Platyphorella *Strand* Ins. 390
 Platytesia *Strand* Ins. 342
 Platysocia *Lhoste* Ins. 263
 Platytylellus *Reuter* Ins. 427
 Plectodinium *Biecheler* Prot. 66
 Plectophila *Turner* Ins. 349
 Plectophloeus *Reiter* Ins. 216
 Plectrocnemella *Mosely* Ins. 359
 Plectrodontus *Voss* Ins. 251
 Plesielliptio *Russell* Moll. 103
 Plesiobremia *Kieffer* Ins. 366
 Plesioidiplosis *Kieffer* Ins. 366
 Pleuromnema *Gaede* Ins. 320
 Pliolagus *Kormos* Mam. 72
 Pliovormela *Kormos* Mam. 79
 Plunomia *Curran* Ins. 420
 Pocadionta *Lucas* Ins. 219
 Podagrionella *Girault* Ins. 287
 Podocotyloides *Yamaguti* Vermes 91
 Podoplanea *Von Graff* Vermes 82
 Poecilogenea *Aurivillius* Ins. 258
 Poecilomyia *Heinrich* Ins. 295
 Poecilomyia *Hennig* Ins. 414
 Poecilonychia *Enderlein* Ins. 405
 Poemnites *Buysson* Ins. 228
 Polidaria *Curran* Ins. 400
 Poliodesira *Hampson* Ins. 325
 Poliops *Aldrich* Ins. 400
 Polyaunbus *Kóno* Ins. 251
 Polykethum *Arnold* Vermes 91
 Polyphemus *Bernhauer* Ins. 214
 Polypheretima *Michaelsen* Vermes 157
 Polytrichia *Sibley* Ins. 359
 Ponsilasia *Heinze* Ins. 423

- Poracanthodes *Brotzen* Pisces 46
 Porasilus *Curran* Ins. 386
 Poroliodes *Grandjean* Arach. 43
 Potamodytes *Zimmermann* Ins. 209
 Potamoryza *Barnard* Ins. 359
 Praeanomalodonta *Isberg* Moll. 100
 Praedareletes *Schindewolf* Moll. 120
 Praeleda *Pfab* Moll. 94
 Praelapeirouseia *Wiontzek* Moll. 108
 Praemachilis *Silvestri* Ins. 475
 Praenucula *Pfab* Moll. 94
 Prajadhypokia *Fowler* Pisces 55
 Pranesella *Whitley* Pisces 64
 Pratylenchus *Filippjev* Vermes 128
 Prayoides *Leloup* Coel. 14
 Preverticillites *Parona* Por. 5
 Prionopus *Voss* Ins. 251
 Prionoxystus *Grote* Ins. 337
 Prisca *De Gregorio* Brach. 19
 Proacidalia *Reuss* Ins. 306
 Proaeschna *Fritsch* Ins. 481
 Proanthidium *Friese* Ins. 268
 Proantilocapra *Barbour & Schultz* Mam. 71
 Problema *Skinner & Williams* Ins. 317
 Procalantica *Rebel* Ins. 350
 Procanace *Curran* Ins. 417
 Procephalobus *Steiner* Vermes 129
 Proceroplatus *Edwards* Ins. 367
 Procholus *Desbrochers* Ins. 251
 Procistogaster *Townsend* Ins. 400
 Proclossiana *Reuss* Ins. 307
 Procollyropsis *Beurlen* Echin. 14
 Procrateria *Hampson* Ins. 325
 Proctacanthella *Bromley* Ins. 386
 Procyanopsis *Townsend* Ins. 400
 Prodasieneura *Cowley* Ins. 459
 Prodegeeria *Brauer & Bergenstamm* Ins. 400
 Prodiamesa *Kieffer* Ins. 373
 Prodiplaoastrea *Wells* Coel. 23
 Proditomus *Schauburger* Ins. 207
 Prodotaula *Meyrick* Ins. 342
 Profabriciana *Reuss* Ins. 308
 Profeltiella *Kieffer* Ins. 366
 Progastrophilus *Townsend* Ins. 393
 Progonocoris *Handlirsch* Ins. 480
 Progymnaspis *Enderlein* Ins. 409
 Proheteroschisma *Tai & Skogsberg* Prot. 66
 Prohypotyphla *Hendel* Ins. 411
 Proisotomurus *Womersley* Ins. 478
 Projoannisia *Kieffer* Ins. 366
 Prolacon *Fleutiaux* Ins. 229
 Proleskiomima *Townsend* Ins. 400
 Prolixophaga *Townsend* Ins. 400
 Prolophomonas *Cleveland* Prot. 67
 Prolypha *Townsend* Ins. 400
 Promachina *Bromley* Ins. 386
 Promasipoda *Townsend* Ins. 401
 Properrisia *Kieffer* Ins. 366
 Propoteriocrinus *Schmidt* Echin. 23
 Prosactogaster *Kieffer* Ins. 286
 Prosaldius *Ogloblin* Ins. 251
 Proscymnodon *Fowler* Pisces 47
 Prosepididontus *Handlirsch* Ins. 479
 Prosinostemma *Kieffer* Ins. 286
 Prosolpuga *Roewer* Arach. 38
 Prosopolepis *Lutz* Ins. 376
 Prosorchis *Yamaguti* Vermes 88
 Prosynacra *Kieffer* Ins. 286
 Protacanthella *Bromley* Ins. 386
 Protajidaumo *Burke* Mam. 74
 Protanyderus *Handlirsch* Ins. 480
 Protapion *Schilsky* Ins. 251
 Protelliptio *Russell* Moll. 103
 Protenthredo *Pongrácz* Ins. 479
 Protictops *Peterson* Mam. 82
 Protissotia *Collignon* Moll. 120
 Protobrachyceron *Handlirsch* Ins. 480
 Protogenes *Mabille & Bouillet* Ins. 317
 Protogonomyia *Alexander* Ins. 378
 Protomyrmeleon *Geinitz* Ins. 481
 Protophilitaspongia *Burton* Por. 8
 Protopliomerops *Kobayashi* Arach. 30
 Protoschelobates *Jacot* Arach. 43
 Protosuchus *Brown* Amph. 33
 Protothurmannia *Crickmay* Moll. 120
 Prottrachypene *Burkenroad* Crust. 34
 Protziella *Lundblad* Arach. 45
 Pruthidiplosis *Mani* Ins. 366
 Przibramiella *Suster* Ins. 401
 Psacotheta *Gahan* Ins. 260
 Psalistopoides *Mello-Leitão* Arach. 32
 Psalydolytta *Péringuey* Ins. 238
 Psammodoryx *Burton* Por. 8
 Psaroniocompsa *Enderlein* Ins. 369
 Pspectrocladius *Kieffer* Ins. 372
 Pseudaesopia *Chabanaud* Pisces 65
 Pseudalosterna *Plavilstshikov* Ins. 25
 Pseudaphycus *Timberlake* Ins. 288
 Pseudargopus *Chen* Ins. 264
 Pseudascoceras *Miller* Moll. 120
 Pseudaspenites *Spath* Moll. 120
 Pseuderemus *Karny* Ins. 469
 Pseudeustomias *Fowler* Pisces 50
 Pseudictinus *Martin* Ins. 459
 Pseudimalmus *Breuning* Ins. 260
 Pseudiodis *Prout* Ins. 334
 Pseudister *Bickhardt* Ins. 218
 Pseudoamara *Baliani* Ins. 202
 Pseudoantedon *Valette* Echin. 23
 Pseudoanthidium *Friese* Ins. 268
 Pseudoastrorhiza *Eisenack* Prot. 63
 Pseudobonellia *Onoda* Vermes 157
 Pseudobulimina *Earland* Prot. 63
 Pseudocacoxenus *Duda* Ins. 419
 Pseudocapritermes *Kemner* Ins. 451
 Pseudocentron *Mitchell* Ins. 270
 Pseudochariesthes *Breuning* Ins. 260
 Pseudochariotheca *Pic* Ins. 234
 Pseudochliaria *Tytler* Ins. 311

- Pseudocongericola* Yu Crust. 44
Pseudocopaedodes Skinner & Williams Ins. 317
Pseudocrenilabrus Fowler Pisces 58
Pseudocupressocrinus Lambert & Valette Echin. 23
Pseudocypridina Roth Crust. 48
Pseudocyrtodonta Pfab Moll. 94
Pseudoderbyia Licherev Brach. 15
Pseudodiopsis Hendel Ins. 417
Pseudodiplostomum Yamaguti Vermes 86
Pseudodistypsidera Horn Ins. 201
Pseudodoliops Schulze Ins. 260
Pseudogoniopsita Duda Ins. 416
Pseudohapheniastus Breuning Ins. 258
Pseudoharttina Licharev Brach. 26
Pseudohydromys Rümmler Mam. 76
Pseudokymatites Spath Moll. 120
Pseudolcyphides Karny Ins. 466
Pseudoleptaleus Pic Ins. 238
Pseudoleptonia Bernhauer Ins. 211
Pseudoligorchis Johri Vermes 107
Pseudolimnophila Alexander Ins. 379, 380
Pseudolimnophora Strobl Ins. 407
Pseudomegachile Friese Ins. 270
Pseudometa Aurivillius Ins. 337
Pseudometacoceras Miller, Dunbar & Condra Moll. 120
Pseudomicra Rebel Ins. 320
Pseudoncholaimus Kreis Vermes 126
Pseudonotoncus Clark Ins. 285
Pseudonotoxus Pic Ins. 238
Pseudonycterophaeta Berio Ins. 325
Pseudopapuina Haas Moll. 88
Pseudoparalegoceras Miller Moll. 120
Pseudoparonycholaimus Kreis Vermes 126
Pseudopelagonema Kreis Vermes 126
Pseudophelminus Girault Ins. 290
Pseudopheniscus (sic) Hendel Ins. 413
Pseudophera Melichar Ins. 437
Pseudophilotermes Bernhauer Ins. 215
Pseudophlebia Martin Ins. 460
Pseudophorellia da Costa Lima Ins. 413
Pseudophosphorus Breuning Ins. 260
Pseudophysaloptera Baylis Vermes 135
Pseudoplanasida de la Escalera Ins. 233
Pseudopolyconites Milovanovic Moll. 108
Pseudoprocirrus Bernhauer Ins. 215
Pseudoproetus Poulsen Arach. 30
Pseudoprotoceras Cook Mam. 70
Pseudoprumna Dovnar-Zapolskiĭ Ins. 474
Pseudopyrochroa Pic Ins. 237
Pseudorichardia Hendel Ins. 411
Pseudorimus Van Dyke Ins. 251
Pseudospermus Pic Ins. 260
Pseudosphecapata Enderlein Ins. 405
Pseudostenophora Malloch Ins. 391
Pseudotanaos Voss Ins. 251
Pseudotectococcus Hempel Ins. 445
Pseudotorymus Masi Ins. 287
Pseudotragiscus Breuning Ins. 260
Pseudotrigocephala Breuning Ins. 260
Pseudotramea Fraser Ins. 460
Pseudotrigonidium Chopard Ins. 467
Pseudottistira Heller Ins. 251
Pseudoxybelus Gussakovskiĭ Ins. 272
Pseudoxyroptila Hori Ins. 344
Pseudoyersinia Kirby Ins. 464
Psilodrynus Kieffer Ins. 275
Psilohalea Kieffer Ins. 371
Psilospa Enderlein Ins. 409
Psilolonchaea Czerny Ins. 410
Psilopelmia Enderlein Ins. 369
Psocidus Pearman Ins. 449
Psychrocoris Handlirsch Ins. 480
Pteredoa Hampson Ins. 327
Pterempis Bezzi Ins. 388
Pterocerota Hampson Ins. 335
Pterochloroides Mordvilko Ins. 440
Pterocroce Withycombe Ins. 363
Pteroglamis Fowler Pisces 55
Pteronemobius Jakobson Ins. 467
Pteropsoglanis Fowler Pisces 55
Pterygotergum Verhoeff Arach. 48
Ptilomyioides Curran Ins. 401
Ptychopterinia Isberg Moll. 97
Ptychopterula Handlirsch Ins. 480
Ptyssoptera Turner Ins. 350
Punctaparchites Kay Crust 49
Pulphagonides Hopwood Mam. 72
Purpuranus Zachvatkine Ins. 437
Pycnosomops Townsend Ins. 409
Pygaspis Beurlen Crust. 28
Pylaecephalus Hoepen Amph. 33
Pyralidoxa Meyrick Ins. 342
Pyrgotella Curran Ins. 412
Pyrgotoides Curran Ins. 414
Pyrgotomyia Hendel Ins. 412
Pyropilus Cushman Prot. 63
Pyrrhanaea Schatz Ins. 309

Quaria Milne Ins. 358
Quintana Hubbs Pisces 57
Quironia Clark Echin. 20
Quoya Labbé Moll. 81

Radinoderus Handlirsch Ins. 480
Ramapithecus Lewis Mam. 85
Rambailbarnia Fowler Pisces 53
Rammeola Uvarov Ins. 469
Raphidotethya Burton Por. 8
Raymondatia Kay Crust. 49
Raymondomyia Malloch Ins. 409
Recurvoides Earland Prot. 63
Reinigia Enderlein Ins. 401
Reinigiellum Enderlein Ins. 384
Remypus Verhoeff Arach. 51

- Reometra *Clark* Echin. 23
 Retezia *Willemse* Ins. 474
 Rethusus *Brown* Ins. 219
 Retinodiplosis *Kieffer* Ins. 366
 Reynoldsia *Malloch* Ins. 409
 Rhabdactinia *Yabe & Sugiyama* Coel. 14
 Rhadinosa *Weise* Ins. 266
 Rhagiella *Szilády* Ins. 383
 Rhagionella *Szilády* Ins. 383
 Rhagologus *Stresemann & Paludan*
 Aves 99
 Rhagovelia *Gould* Ins. 428
 Rhamphodopsis *Watson* Pisces 48
 Rhaphiobolone *Fowler* Pisces 56
 Rhaphoxiella *Burton* Por. 8
 Rheophylax *Sibley* Ins. 359
 Rheumatogonus *Kirkaldy* Ins. 428
 Rhinodelphax *Muir* Ins. 431
 Rhinomyiobia *Bezzi* Ins. 401
 Rhinophyllotis *Iredale & Troughton*
 Mam. 83
 Rhinotoroides *de Souza Lopes* Ins. 412
 Rhipidothripoides *Bagnall* Ins. 480
 Rhodania *Goux* Ins. 445
 Rhodesia *Womersley* Ins. 478
 Rhoizema *Barnard* Ins. 359
 Rhomboceras *Foerste* Moll. 121
 Rhopaliana *Séguy* Ins. 384
 Rhynchodontodes *Warren* Ins. 325
 Rhynchomadiza *Enderlein* Ins. 420
 Rhynchonympha *Cleveland* Prot. 67
 Rhynchopompilus *Arnold* Ins. 279
 R(h)yssolabus *Berthoumieu* Ins. 296
 Ribautiellus *Zachvatkine* Ins. 437
 Ribeirina *Parker* Amph. 32
 Ridesa *Schumacher* Ins. 431
 Ridestus *Banks* Ins. 279
 Rimanella *Needham* Ins. 460
 Ringoceras *Strand* Moll. 121
 Risiocnemis *Cowley* Ins. 460
 Risiolestes *Fraser* Ins. 460
 Risioneura *Munz* Ins. 460
 Risiophlebia *Cowley* Ins. 460
 Ritteriella *Metcalf* Protoch. 5
 Roewerania *Lawrence* Arach. 40
 Rogeria *Emery* Ins. 285
 Rohdendorfia *Townsend* Ins. 405
 Roosa *de Laubenfels* Por. 6
 Rosanococcus *Kanda* Ins. 445
 Rosaphula *Frey* Ins. 381
 Rostrimacoma *Salisbury* Moll. 105, 109
 Rostrosprifer *Grabau* Brach. 23
 Rotylenchus *Filipjev* Vermes 128
 Rugoshyria *Iredale* Moll. 103
 Ruralia *Tutt* Ins. 311
 Rutripalpus *Sokolov* Arach. 45
 Ruttenia *Rodhain* Ins. 393
 Rysepyris *Kieffer* Ins. 275
 Sabimamorpha *Schumacher* Ins. 437
 Sabitaptus *Pruvost* Ins. 483
 Sacapome *Schumacher* Ins. 437
 Saccinobaculus *Cleveland* Prot. 67
 Sactorthoceras *Kobayashi* Moll. 121
 Saigona *Matsumura* Ins. 430
 Saliococcus *Kanda* Ins. 445
 Samarangopus *Verhoeff* Arach. 51
 Samarura *Redtenbacher & Ganglbauer*
 Ins. 481
 Samoaia *Malloch* Ins. 419
 Sampsonius *Eggers* Ins. 253
 Sansabelloides *Harris & Lalicker* Crust.
 49
 Sapporomyia *Szilády* Ins. 383
 Sapriniana *Strand* Ins. 241
 Saptadanta *Prashad & Rao* Moll. 62
 Sartora *Swinhoe* Ins. 317
 Satherium *Gazin* Mam. 79
 Sauteromyia *Malloch* Ins. 410
 Sauvagesinella *Paulian* Ins. 240
 Sbeitla *Wilkinson* Ins. 298
 Scaphiodontopsis *Fowler* Pisces 54
 Scaphis *Labbé* Moll. 81
 Scarritia *Simpson* Mam. 66
 Schatzmayrina *Koch* Ins. 215
 Scheherazade *Leigh-Sharpe* Crust. 44
 Schenkeliella *Strand* Arach. 33
 Schinzia *Saussure* Ins. 474
 Schizochaeta *Malloch* Ins. 419
 Schizohelea *Kieffer* 371
 Schizolachnus *Mordvilko* Ins. 441
 Schizopechus *Pearman* Ins. 450
 Schizopolybothrus *Verhoeff* Arach. 48
 Schizostomella *Canu & Bassler* Bry. 36
 Schizostomyia *Malloch* Ins. 415
 Schlinkus *Lucas* Ins. 234
 Schoenomyzina *Malloch* Ins. 409
 Schuchertoceras *Miller* Moll. 121
 Schwarzalia *Curran* Ins. 401
 Schweinfurthia *Andres* Ins. 234
 Sciadorus *Barnard* Ins. 360
 Sciadosoma *Melzer* Ins. 260
 Scioneera *Karny* Ins. 465
 Scleropatrum *Seidlitz* Ins. 234
 Scolioides *Guiglia & Capra* Ins. 275
 Scotiotrichia *Mosely* Ins. 360
 Sculptolithodes *Makarow* Crust. 32
 Seydmoraphes *Reitter* Ins. 216
 Scymnoplastophilus *Voss* Ins. 251
 Sebaethoides *Chen* Ins. 265
 Secodes *Girault* Ins. 290
 Seisia *Kutassy* Moll. 66
 Seisonia *Kobayashi* Arach. 30
 Selenothemis *Handlirsch* Ins. 481
 Semicorallidomus *Isberg* Moll. 97
 Semieytella *Bassler* Bry. 34
 Semijulistus *Schilsky* Ins. 225
 Seminolina *Pilsbry* Moll. 84
 Semitextularia *Miller & Carmer* Prot. 63
 Semperella *Labbé* Moll. 82
 Senariocrinus *Schmidt* Echin. 24
 Sencera *Navás* Ins. 363

- Sepsisia Curran* Ins. 414
Setasiphona Townsend Ins. 401
Setolestes Aldrich Ins. 401
Shangaia Lucas Ins. 241
Shaninopsis Isberg Moll. 110
Shelfordella Hanitsch Ins. 463
Shermanalia Curran Ins. 401
Sicarius Li Vermes 134
Sicilia Gortani & Merla Brach. 15
Sigmocycloceras Kobayashi Moll. 121
Sigmorthoceras Kobayashi Moll. 121
Silenites Coryell & Booth Crust. 49
Silicotextulina Deflandre Prot. 63
Silillicus Lucas Ins. 216
Silvesterina Fowler Pisces 56
Simianides van Emden Ins. 223
Simimeryx Stock Mam. 70
Sinaenigma Pilsbry Moll. 85
Sinarge Forsius Ins. 301
Sinclairella Jepsen Mam. 82
Sinion Barnard Ins. 360
Sintocephalus Hoepen Amph. 33
Siphoderina Manter Vermes 96
Siphonellomyia Séguy Ins. 416
Siphonaphis van der Goot Ins. 441
Siraton Hustache Ins. 252
Siricosoma Forsius Ins. 302
Sisyrocoris Handlirsch Ins. 480
Sisyropecta Enderlein Ins. 406
Skiagraptus Harris Coel. 17
Skwarraia van Emden Ins. 262
Smilogobius Herre Pisces 62
Smittinella Bassler Bry. 37
Socraticum De Gregorio Brach. 15
Soikiella Nowicki Ins. 291
Solenites Mabilie Ins. 309
Solindenelleus Girault Ins. 288
Solpugelis Roewer Arach. 38
Solpugiba Roewer Arach. 39
Solpugista Roewer Arach. 39
Somersia Beebe & Tee-Van Pisces 63
Sophrachaeta Reitter Ins. 217
Sophriferonia Alluaud Ins. 207
Sorsogona Herre Pisces 64
Spaniophylla Turner Ins. 350
Spaniopsis White Ins. 383
Spathocranus Muir Ins. 432
Spatulifer Woodland Vermes 104
Spelaeacritus Jeannel Ins. 219
Spelaeocamptus Chappuis Crust. 44
Sphaerobothris Semenov-Tian-Shanskiĭ & Richter Ins. 230
Sphaerolauthia Kieffer Ins. 366
Sphaerolbia Meyrick Ins. 350
Sphaerophrida Chen Ins. 265
Sphaeropotamus Treadwell Vermes 152
Sphecomyiella Hendel Ins. 412
Sphenaspis Meyrick Ins. 350
Sphenophyma Uvarov Ins. 474
Sphragista Collenette Ins. 327
Spilichneumon Thomson Ins. 292
Spilogona Schnabl Ins. 409
Spirisosium De Gregorio Brach. 23
Spirolocammina Earland Prot. 63
Spiroplectella Earland Prot. 63
Sporadactia Dyar Ins. 320
Spuridiophorus Arnold Ins. 279
Squamata Curran & Walley Ins. 406
Squamodiscua Yamaguti Vermes 83
Squamomedina Townsend Ins. 401
Stalitella Absolon & Kratochvil Arach. 32
Startes Broun Ins. 216
Steatosoma Aldrich Ins. 401
Stefaniella Kieffer Ins. 366
Stefaninia Migliorini & Venzo Moll. 97
Stegophorus Wehr Vermes 134
Stegothrips Hood Ins. 447
Steineriella Allgén Vermes 126
Stenarches Heinrich Ins. 296
Stenelsianus Hinton Ins. 222
Stenichneumonopsis Heinrich Ins. 296
Stenipo Evans Ins. 437
Stenodontus Berthoumieu Ins. 296
Stenomarconia Germain Moll. 90
Stenomitra Enderlein Ins. 409
Stenoscopus Evans Ins. 337
Stephanoproroides Price Vermes 99
Stephanorgerius Kuznetsov Ins. 430
Stephansoniella Cernovitov Vermes 154
Sternostena Weise Ins. 266
Stethorus Weise Ins. 221
Stichophrys Enderlein Ins. 406
Stictonecropter Shchegoleva-Barovskaya Ins. 217
Stictotarsus Zimmermann Ins. 209
Stiphrolamyia Engel Ins. 386
Stirolglenea Aurivillius Ins. 258
Stita De Gregorio Brach. 19
Stomachicola Yamaguti Vermes 88
Stomachobia Enderlein Ins. 393
Stomafrontia Hampson Ins. 325
Stonychophora Karny Ins. 469
Strandiellum Kolosváry Arach. 35
Strangalina Aurivillius Ins. 257
Stratiobelonalys Frey Ins. 384
Stresemanniella Heinrich Ins. 296
Strickerus Lucas Ins. 263
Strigogoniates Spath Moll. 122
Strobilophila Kieffer Ins. 366
Strongyloneuropsis Townsend Ins. 401
Strophingia Enderlein Ins. 438
Stulothrips Moulton Ins. 447
Sturanyella Pilsbry & Cooke Moll. 66
Sturmiomima Townsend Ins. 401
Sturyanella Pilsbry & Cooke Moll. 66
Stygiocampa Silvestri Ins. 475
Stygohalacarus Viets Arach. 42
Styloceria Enderlein Ins. 392
Stylopidea Hunter, Mitchell & Pratt Ins. 427
Styloribates Jacot Arach. 44

- Stylospira de Laubenfels* Por. 8
Stylotanytarsus Kieffer Ins. 373
Stylothrips Bondar Ins. 447
Subflemingites Spath Moll. 122
Submeekoceras Spath Moll. 122
Subphaonia Ringdahl Ins. 409
Sugrivapithecus Lewis Mam. 85
Sulcella Coryell & Sample Crust. 49
Suniana Evans Ins. 318
Sureyaella Uvarov Ins. 469
Surugathyrus Yabe & Hatai Brach. 27
Susakia Kato Vermes 82
Symbiomyrma Arnold Ins. 285
Symphitoneuria Ulmer Ins. 360
Symplectophyllum Hill Coel. 24
Synaphopsila Hendel Ins. 415
Synaplomyia Villeneuve Ins. 401
Synaptoneura Pruvost Ins. 483
Synelytus Lucas Ins. 257
Synocladiopsis Gregorio Bry. 35
Synoditinus Reichensperger Ins. 219
Synpleonia Creaser Crust. 38
Syntegana Stichel Ins. 306
Syntetrum Kennedy Ins. 458
Synthesia Bezzi Ins. 388
Synthrophinella Ulrich & Cooper Brach. 13
Syringophilus Hering Ins. 302
Syrrothonus Chabanaud Pisces 62
Tachinalia Curran Ins. 402
Tafanerus Navás Ins. 363
Tagalochares Banks Ins. 279
Taipinia Shiraki Ins. 461
Taiwanaphis Takahashi Ins. 441
Taizonia Chen Ins. 265
Takadonta Matsumura Ins. 330
Talitropsis Burt Crust. 38
Tanycyttara Turner Ins. 350
Tanyglossa Duda Ins. 419
Tapajohoughia Townsend Ins. 402
Tapajoleskia Townsend Ins. 402
Tapajomintho Townsend Ins. 402
Tapajosia Townsend Ins. 402
Taphodiplosis Kieffer Ins. 366
Tapiralum Rusconi Mam. 68
Tapocyon Stock Mam. 78
Tarchon Druce Ins. 337
Tartarothyas Viets Arach. 45
Tasmanopsocus Hickman Ins. 450
Tatitimus Heller Ins. 252
Taunaspis Schmidt Pisces 47
Taunaya Pinto da Fonseca Ins. 433
Tauroscypson Curran Ins. 412
Tedaniopsamma Burton Por. 8
Telarma Odhner Moll. 82
Telecrex Wetmore Aves 78
Teleioliodes Grandjean Arach. 44
Teleogonia Melichar Ins. 438
Teleptyxis Olsson Moll. 70
Telodytes Aldrich Ins. 402
Temnorrhynchodes Prell Ins. 243
Tennalosa Fowler Pisces 49
Tephritocampylocera Hendel Ins. 412
Tephritoedaspis Rohdendorf Ins. 414
Tephritoides Benjamin Ins. 414
Tephritopyrgota Hendel Ins. 412
Tephrophilus Moore Aves 104
Teraturus Kokujev Ins. 298
Teriocolias Röber Ins. 313
Tethycordyla de Laubenfels Por. 8
Tetrabezzia Kieffer Ins. 371
Tetrabrachiocrinus Yakovlev Echin. 24
Tetracharis Grote Ins. 313
Tetracheobis Roewer Arach. 39
Thanodectes Leigh-Sharp Crust. 44
Thaumatoptauropus Esaki Arach. 51
Thaumaturgis Meyrick Ins. 351
Thelairalia Curran Ins. 392
Theonioides Strand Ins. 406
Thereuops Brauer & Bergenstamm Ins. 402
Therodiplosis Kieffer Ins. 366
Thersamonia Verity Ins. 311
Thomasatia Kay Crust. 49
Thomasiniana Strand Ins. 366
Thomasiniellula Strand Ins. 441
Thorectopsamma Burton Por. 8
Thorslundia Isberg Moll. 104
Thrinchostoma Saussure Ins. 272
Thuriostoma Meyrick Ins. 351
Thygater Holmberg Ins. 272
Thylakion Barnard Ins. 360
Thylakiophilus Verhoeff Arach. 47
Thymaspis Sule Ins. 445
Thyrsopelma Enderlein Ins. 369
Thysanococcus Stickney Ins. 445
Thysanoplana von Graff Vermes 81
Tibetocoris Hurthinson Ins. 428
Tidarren Chamberlin & Ivie Arach. 34
Tigones Broun Ins. 252
Tigriagrion Calvert Ins. 460
Timorimidia Frey Ins. 381
Tineigidia Amsel Ins. 335
Tiphodytes Bradley Ins. 286
Tirolitoides Spath Moll. 122
Tissotia Collignon Moll. 122
Tmetocerus Ponjade Ins. 318
Tolmatchoffia Fredericks Brach. 18
Tomentaromia Plavilstshikov Ins. 255
Tonoscolex Gates Vermes 157
Torigea Matsumura Ins. 330
Tornocometis Meyrick Ins. 343
Torleya Lestage Ins. 455
Torreina Palmer Prot. 64
Torrentomus Bierig Ins. 215
Torresia Brongersma Amph. 35
Townsendina Curran Ins. 402
Trachelocyphoides Alluaud Ins. 208
Trachinoides Borodin Pisces 61
Trachychloritis Haas Mol. 89
Trachyglyptus Arnold Ins. 279
Trachypeneopsis Burkenroad Crust. 34

- Trachysalambria Burkenroad* Crust. 34
Transolenocera Burkenroad Crust. 34
Trepanotachys Alluand Ins. 208
Trepimetus Hustache Ins. 252
Tribolia Chen Ins. 265
Tribremia Kieffer Ins. 366
Tricarcelia Baranov Ins. 402
Trichocladus Kieffer Ins. 372
Trichodagmia Enderlein Ins. 369
Trichoformosomyia Baranov Ins. 402
Tricholabus Thomson Ins. 295
Tricholonchaea Czerny Ins. 411
Tricholeptacis Kieffer Ins. 286
Trichomachimus Engel Ins. 386
Trichopalpomyia Hunter Ins. 383
Trichophyllotele Baranov Ins. 406
Trichopododes Townsend Ins. 402
Trichosalius Arnold Ins. 279
Trichotipula Alexander Ins. 380
Tricuspes v. Huene Amph. 33
Tricyphistis Meyrick Ins. 351
Tridicroctena Enderlein Ins. 368
Trigloporus Smith Pisces 64
Trilophomyllacris Pruvost Ins. 483
Trinacoplax Enderlein Ins. 406
Trinacriella Parona Por. 5
Tripanurga Brauer & Bergenstamm Ins. 406
Triploctenia Enderlein Ins. 368
Trishelea Kieffer Ins. 371
Trishormomyia Kieffer Ins. 367
Trisinostemma Kieffer Ins. 286
Troglosternus Bickhardt Ins. 219
Tros Kirby Ins. 315
Truemanina Bolton Ins. 481
Trychopeplus Shelford Ins. 466
Trypargilum Richards Ins. 274
Tuberculoides van der Goot Ins. 441
Tuberculachnus Mordvilko Ins. 441
Tubitrabecularia Bassler Bry. 37
Tubolaimella Allg en Vermes 122
Tubulovesicula Yamaguti Vermes 88
Tumagenia Banks Ins. 279
Turneria Parent Ins. 390
Turriculum De Gregorio Brach. 29
Tuttia Warren Ins. 318
Tweediulus Roewer Arach. 39
Tyrioceras Strand Moll. 123
Tyriograptis Meryck Ins. 351
Tyrolimnas Meyrick Ins. 351

Uchidia Heinrich Ins. 296
Udamomitra Enderlein Ins. 406
Ulomotypus Broun Ins. 235
Ulosota Grote Ins. 338
Untaliella Lawrence Arach. 39
Uncinunellina Grabau Brach. 20
Undecimus Whitley Pisces 60
Uniserium E. v. Huene Mam. 63
Upolumyia Malloch Ins. 419
Uranoconger Fowler Pisces 56

Urbicola Tutt Ins. 318
Urinatrema Yamaguti Vermes 95
Urinympa Cleveland Prot. 68
Uroboophilus Minning Arach. 46
Urocleidus Mueller Vermes 83
Urogaster Ashmead Ins. 298
Urojana Gaede Ins. 328
Uroplatosisenes Pic Ins. 237
Urucurymyia Townsend Ins. 402
Uruleskia Townsend Ins. 402
Urummybia Townsend Ins. 402
Urchizactia Townsend Ins. 402
Utanaeris Miller Ins. 474
Uttleya Marwick Moll. 80
Uvulifer Yamaguti Vermes 86

Vagrans Hemming Ins. 309
Validentia Heinrich Ins. 296
Valsalenia Mortensen Echin. 19
Vaughanina Palmer Prot. 64
Vaughanoseris Wells Coel. 25
Velesionymus Whitley Pisces 62
Velesunio Iredale Moll. 104
Veloidea Gould Ins. 428
Vespadelus Iredale & Troughton Mam. 83
Vexillaria Lohmann Protoch. 6
Vidamus Raffray Ins. 216
Vigorniella F. R. C. Reed Moll. 97
Viles de Laubenfels Por. 8
Vincia De Gregorio Brach. 19
Vindula Hemming Ins. 309
Virbium De Gregorio Brach. 29
Volutocristata Gardner & Bowles Moll. 78
Vorialia Curran Ins. 402

Wadeopsammia Wells Coel. 25
Wagnerina Ioff & Argyropulo Ins. 422
Walkeromyia Parmonow Ins. 388
Waluia Ladd Moll. 72
Warburgia Isberg Moll. 104
Warra Benson Ins. 302
Waterstonia Mercet Ins. 288
Weberia M ller-Rutz Ins. 351
Weberina M ller-Rutz Ins. 351
Westralunio Iredale Moll. 104
Wheelerella Forel Ins. 285
Whipplella Holland Crust. 49
Whitleyidea Fowler Pisces 49
Wierzejskiella Wiszniewski Vermes 140
Willemsella Miller Ins. 474
Willowsiella Wheeler Ins. 285
Wolcottella Lucas Ins. 224
Wollastonella Lucas Ins. 224
Wombatula Iredale & Troughton Mam. 64
Wuia Fowler Pisces 47
Wulpitachina Villeneuve Ins. 402

Xanterraria Sj stedt Ins. 475

Xanthobasis Aldrich Ins. 402
Xanthochaetona Townsend Ins. 402
Xanthogaleruca Laboissière Ins. 265
Xanthomelanodes Townsend Ins. 402
Xanthopelta Aldrich Ins. 402
Xanthophenax Saussure Ins. 296
Xanthopimpla Saussure Ins. 296
Xanthotrichius Townsend Ins. 403
Xenacanthippus Miller Ins. 475
Xenarretocera Girault Ins. 287
Xenocharis Bierig Ins. 216
Xenocheila Uvarov Ins. 475
Xenocheilichthys Smith Pisces 54
Xenohelea Kieffer Ins. 371
Xenoheptaulacus Hinton Ins. 241
Xenohydrochoerus Rusconi Mam. 73
Xenophasia Townsend Ins. 403
Xenopterophora Hori Ins. 344
Xerocystis Watson Moll. 89
Xeromegachile Mitchell Ins. 270

Xuthotrichia Mosely Ins. 360

Ylodes Milne Ins. 360
Ymymia Milne Ins. 360
Yotala Melichar Ins. 438
Yphria Milne Ins. 359
Yrula Milne Ins. 358

Zaommomyiella Girault Ins. 290
Zastenogastra Viereck Ins. 297
Zeamordella Broun Ins. 239
Zehala Swinhoe Ins. 318
Zetekomyia Curran Ins. 412
Zethopsus Reitter Ins. 216
Zonalia Curran Ins. 403
Zonoepalpus Townsend Ins. 403
Zonosemata Benjamin Ins. 414
Zuanalia Curran Ins. 403
Zubovskya Dovnar-Zapolskiĭ Ins. 475
Zygosturmia Townsend Ins. 403

LIST OF ABBREVIATIONS WITH TITLES OF PERIODICAL PUBLICATIONS, CONTAINING PAPERS DEALING WITH MATTERS OF ZOOLOGICAL IMPORTANCE.

The last complete list of periodicals was published in 1931 in Vol. 67 of the Record and only supplements were printed in 1932, 1933 and 1934. Last year a new edition of the World List of Periodicals was issued and the present list has been thoroughly revised and brought into agreement with it. In the case of Russian and other Slavonic and extra-European languages the title of the periodical has been given in the French, German or English official translation and not in the original Russian as in the World List. This it is believed will be a convenience to those who consult our list.

It is not intended that the present list shall be a complete one. This is specially the case in regard to medical and agricultural journals. Only those which contain matter of definite zoological interest have been retained.

After the full title of each periodical is a number and one or two capital letters in square brackets. The number corresponds to that given in the new edition of the World List, and where no number is given the periodical is not to be found in the World List. The capital letters indicate the Libraries in which the periodical is to be found. As a rule only two are given, and these refer to libraries in London; but more information on this point is to be obtained by referring to the World List itself, where the scientific libraries of twenty of the larger towns of the British Islands, as well as those of London, have been utilized.

In the present list the periodicals are arranged for the convenience of readers according to the abbreviations, not as in the World List according to the full titles.

The following are the library symbols used in this list:—

- N** General Library of the Natural History Museum.
- Nz.** Zoological Library of the Natural History Museum.
- Ng.** Geological Library of the Natural History Museum.
- Nb.** Botanical Library of the Natural History Museum.
- Nm.** Mineralogical Library of the Natural History Museum.
- B.** British Museum (Bloomsbury).
- E.** Entomological Society.
- G.** Geological Society.
- I.** Imperial Institute of Entomology.
- L.** Linnean Society.
- M.** Royal Society of Medicine.
- R.** Royal Society.
- S.** Royal College of Surgeons.
- Sc.** Science Library, South Kensington.
- T.** Zoological Museum, Tring, Herts.
- T.D.** Tropical Diseases Library.
- U.** University College.
- V.** Royal College of Veterinary Surgeons.
- Z.** Zoological Society.

- Aarsb. Selsk. norsk. Fisk. Frem.*—Aarsberetning for Selskabet for de norske Fiskeriers Fremme. Bergen. [13 Nz. B.]
- Abeille, Paris.*—Abeille, Journal d'entomologie. Paris. [15 Nz. E.]
- Abh. Arch. Molluskenk.*—Abhandlungen des Archiv für Molluskenkunde. Frankfurt a.M. [20a Nz.]
- Abh. bayer. Akad. Wiss.*—Abhandlungen der Bayerischen Akademie der Wissenschaften. Math.-Phys. Kl. München. [23 N. Sc.]
- Abh. Ber. pommerschen naturf. Ges.*—Abhandlungen und Berichte der Pommerschen Naturforschenden Gessellschaft. Stettin. [62b N.]
- Abh. deuts. Seefisch Ver. Berlin.*—Abhandlungen des Deutschen Seefischereivereins. Berlin. [28 Nz. P.]
- Abh. Geb. Auslandsk. Hamburg.*—Hamburgische Universität. Abhandlungen aus dem Gebiet der Auslandskunde. Hamburg. [21 N.]
- Abh. Geb. Naturw. Hamburg.*—Abhandlungen aus dem Gebiet der Naturwissenschaften hrsg. vom Naturwissenschaftlichen Verein in Hamburg. Hamburg. [59 N. Sc.]
- Abh. Geb. Vogelzugs. Berlin.*—Abhandlungen aus dem Gebiete der Vogelzugsforschung. Herausgegeben von der Vogelwarte der Statl. Biol. Anstalt auf Helgoland. Berlin. [76a Nz.]
- Abh. geol. BundesAnst. Wien.*—Abhandlungen der Geologischen Bundesanstalt. Wien. [35 Ng. G.]
- Abh. geol.-palaeont. Inst. Greifswald.*—Abhandlungen aus dem Geologisch-palaeontologischen Institut der Universität Greifswald. Bamberg. [37 Ng.]
- Abh. Ges. Wiss. Göttingen.*—Abhandlungen der Gesellschaft der Wissenschaften zu Göttingen. Berlin. [42 N. U.]
- Abh. heidelberg. Akad. Wiss.*—Abhandlungen der Heidelberger Akademie der Wissenschaften. Math.-Nat. Kl. Heidelberg. [44 N. B.]
- Abh. hess. geol. LdAnst.*—Abhandlungen der Grosshzgl. Hessischen Geologischen Landesanstalt. Darmstadt. [45 Ng. G.]
- Abh. Mus. Dresden.*—Abhandlungen und Berichte der Museen für Tierkunde und Völkerkunde zu Dresden. [54 Nz. B.]
- Abh. Mus. Nat.-u.-Heimatk. Magdeburg.*—Abhandlungen und Berichte aus dem Museum für Natur-und-Heimatkunde u. d. Naturwissenschaftl. Verein in Magdeburg. [55 N. U.]
- Abh. naturf. Ges. Görlitz.*—Abhandlungen der Naturforschenden Gesellschaft zu Görlitz. Görlitz. [56 N. Sc.]
- Abh. naturf. Ges. Halle.*—Abhandlungen der Naturforschenden Gesellschaft zu Halle. Halle a.d.S. [57 N. Sc.]
- Abh. naturf. Ges. Nürnberg.*—Abhandlungen der Naturhistorischen Gessellschaft zu Nürnberg. Nürnberg. [58 N. Sc.]
- Abh. naturw. Ver. Bremen.*—Abhandlungen hrsg. vom Naturwissenschaftlichen Verein zu Bremen. Bremen. [60 N. Sc.]
- Abh. preuss. Akad. Wiss.*—Abhandlungen der Preussischen Akademie der Wissenschaften. Phys.-Math. Kl. Berlin. [63 N. Sc.]
- Abh. preuss. geol. LdAnst.*—Abhandlungen der Preussischen Geologischen Landesanstalt. Berlin. [64 Ng. G.]
- Abh. sächs. Akad. Wiss.*—Abhandlungen der Sächsischen Akademie der Wissenschaften. Math.-Phys. Kl. Leipzig. [65 N. Sc.]
- Abh. schweiz. paläont. Ges.*—Abhandlungen der Schweizerischen Paläontologischen Gesellschaft. Zurich. [68 N. U.]
- Abh. senckenb. naturf. Ges.*—Abhandlungen hrsg. von der Senckenbergischen Naturforschenden Gesellschaft. Frankfurt a.M. [69 N. Sc.]

- Abh. Ver. Naturk. Cassel.*—Abhandlungen und Berichte des Vereins für Naturkunde zu Cassel. Cassel. [76 N.]
- Abh. westfäl. Provinzial-Mus. Münster i.W.*—Abhandlungen aus dem Westfälischen Provinzial-Museum für Naturkunde. Münster i.W. [76b. N.]
- Abh. zool.-bot. Ges. Wien.*—Abhandlungen der zoologisch-botanischen Gesellschaft in Wien. Wien. [77 N. Sc.]
- Abs. Diss. Univ. Cambridge.*—Abstracts of Dissertations approved for the Ph.D., M.Sc. and M.Litt. degrees in the University of Cambridge. [94d N.]
- Abstr. Diss. Oxford Univ.*—Abstracts of Dissertations for the Degree of Doctor of Philosophy. Oxford University. Oxford. [94e N.]
- Abstr. Doctors' Diss., Ohio Sta. Univ.*—The Ohio State University. Abstracts of Doctors' Dissertations. Columbus, Ohio. [94f N.]
- Abstr. Linn. Soc. N.Y.*—Abstract of the Proceedings of the Linnaean Society of New York. New York. [92 N. R.]
- Abstr. Pap. Brighton nat. Hist. Soc.*—Abstract of Papers. Brighton and Sussex Natural History Society. Hove. [87a N. B.]
- Abstr. Thes. Univ. Chicago.*—Abstracts of Theses. Science Series. University of Chicago. Chicago. [95e N.]
- Abs. Works zool. Inst. Moscow Sta. Univ.*—Abstracts of the works of the Zoological Institute of the Moscow State University. [Nz.]
- Act. Acad. Cienc. Córdoba.*—Actas de la Academia nacional de ciencias en Córdoba. Córdoba, Argentina. [124 N. G.]
- Act. Mus. Hist. nat. Rouen.*—Actes du Muséum d'Histoire naturelle. Rouen. [135 N.]
- Act. Soc. linn. Bordeaux.*—Actes de la Société linnéenne de Bordeaux. [137 N. U.]
- Act. Soc. sci. Chili.*—Actes de la Société scientifique du Chili. Santiago. [138 N. B.]
- Acta biol. Szeged.*—Acta biologica Regiae Universitatis Hungaricae Francisco-Josephinae. Szeged. [112j Sc.]
- Acta Comm. Univ. Tartu.*—Acta et Commentationes Universitatis Tartuensis. Tartu (= Dorpat or Juriev.) [121d B.]
- Acta Faun. Flor. universali București.*—Acta pro Fauna et Flora Universali. Ser. i. Zoologia. București. [109 Nz.]
- Acta Leidensia Sch. Med. Trop.*—Acta Leidensia edita cura et sumptibus Scholae Medicinae Tropicae. Lugduni-Batavorum (Leiden). [112i I.]
- Acta Lit. Sci. R. Univ. Szeged.*—Acta Litterarum ac Scientiarum Regiae Universitatis Hungaricae Francisco-Josephinae. Sectio Scientiarum Naturalium, Szeged. [112j Sc.]
- Acta. orn. Mus. zool. polon.*—Acta ornithologica Musei Zoologici Polonici. Warszawa. [114cc Nz.]
- Acta pont. Acad. Sci. Novi Lincae.*—Acta pontificiae Academiae Scientiarum Novi Lincei. Roma. [2123 N. I.]
- Acta phaenolog. 's Gravenhage.*—Acta Phaenologica. 's Gravenhage. [115b N.]
- Acta R. Soc. Physiogr. Lund.* See *Acta Univ. Lund.*
- Acta Sch. med. Univ. Kioto.*—Acta Scholae Medicinalis Universitatis Imperialis in Kioto. [117 S. U.]
- Acta Soc. ent. Čeck.*—Acta Societatis Entomologicae Českosloveniae. Časopis Československé Společnosti Entomologické. Praha (Prague). [5968 Nz. I.]
- Acta Soc. Ent. Jugosl.*—Acta Societatis Entomologicae Jugoslavensis. Belgrade. [118b Nz.]

- Acta Soc. Ent. Stauropol.*—Acta Societatis Entomologicae Stauropolitanae. Stavropol. (In Russian.) [118c I.]
- Acta Soc. Fauna Flora fenn.*—Acta Societatis pro fauna et flora Fennica. Helsingforsiae. [119 N. R.]
- Acta Soc. Sci. fenn. Helsingfors.*—Acta Societatis scientiarum Fennicae. Helsingforsiae. [120 N. Sc.]
- Acta Soc. Sci. nat. Moraviae.*—Acta Societatis Scientiarum Naturalium Moraviae [Práce Moravské Přírodovědecké Společnosti]. Brno. [120a N.]
- Acta Univ. Asiae Med. Tashkent.*—Acta Universitatis Asiae Mediae, Tashkent. [121b N.]
- Acta Univ. lund.*—Acta Universitatis Lundensis. Lund. [122 N. Sc.]
- Acta zool. fenn. Helsingfors.*—Acta Zoologica Fennica, Societas pro Fauna et Flora Fennica. Helsingforsiae. [123a Nz.]
- Acta zool. Stockholm.*—Acta Zoologica. Stockholm. [123 Nz. U.]
- Afra, Paris.*—Afra. Cahiers d'Entomologie. Paris. [201a Nz.]
- Agric. Gaz. N.S.W.*—Agricultural Gazette of New South Wales, Sydney. [278 Nz. I.]
- Agric. J. Ind.*—Agricultural Journal of India. Pusa. [290 Nz. I.]
- Aichi J. exper. Med. Nagoya.*—The Aichi Journal of Experimental Medicine. Aichi Medical University. Nagoya. [340a U.]
- Akad. Ért. Budapest.*—Akadémiai Értesítő. Budapest. [355 B.]
- Alauda, Paris.*—Alauda; Études et notes ornithologiques. Paris. [366a Nz.]
- Allahabad Univ. Studies.*—Allahabad University Studies. Allahabad. [393c N.]
- Állat. Közlem. Budapest.*—Állattani Közlemények. Budapest. [402 N.]
- Almanach Poltava State Mus.*—Almanach. Poltava State Museum. Poltava. [Nz.]
- Amat. Papillons, Paris.*—L'Amateur de Papillons. Paris. [518a Nz.]
- Amer. Anat. Mem. Philadelphia.*—American Anatomical Memoirs. Philadelphia, Pa. [529 Sc. U.]
- Amer. J. Anat. Baltimore.*—American Journal of Anatomy. Baltimore. [590 S. U.]
- Amer. J. Hyg. Baltimore.*—American Journal of Hygiene. Baltimore. [600a M. I.]
- Amer. J. phys. Anthropol. Philad.*—American Journal of Physical Anthropology. Philadelphia. [611 Nz. U.]
- Amer. J. Physiol. Baltimore.*—American Journal of Physiology. Baltimore. [613 Sc. S.]
- Amer. J. Psychol. Ithaca.*—The American Journal of Psychology. Ithaca, N.Y. [616 B. U.]
- Amer. J. Sci. New Haven.*—American Journal of Science. New Haven. [621 N. Sc.]
- Amer. J. trop. Med. Baltimore.*—American Journal of Tropical Medicine. Baltimore. [626 N. I.]
- Amer. Midl. Nat. Notre Dame.*—American Midland Naturalist. Notre Dame, Ind. [640 N. K.]
- Amer. Mus. Nov.*—American Museum Novitates. New York. [650 N.]
- Amer. Nat.*—American Naturalist. New York or Lancaster, Pa., formerly Boston. [651 N. Sc.]

- Amtl. Ber. naturg. Samml. Danzig.*—Amtlicher Bericht über die Verwaltung der naturgeschichtl., vorgeschichtl. u. volkskundl. Sammlungen des Westpreuss. Provinzial-Museums. Danzig. [698 N.]
- An. Acad. Habana.*—Anales de la Academia de ciencias médicas, físicas y naturales de la Habana. Habana, Cuba. [709 N. B.]
- An. cient. paraguay.*—Anales científicos paraguayos. Asunción. [714 N. I.]
- An. Inst. Biol. Mexico.*—Anales del Instituto de Biología, Universidad Nacional Autónoma. Mexico. [723a N.]
- An. Inst. geol. Méx.*—Anales del Instituto geológico de México. México. [724 Ng. Sc.]
- An. Inst. Nac. Parasitol. Asunción.*—Anales del Instituto nacional de Parasitología. Asunción, Paraguay. [727a N.]
- An. Mus. La Plata.*—Anales del Museo de la Plata. La Plata. [734 N. B.]
- An. Mus. Montevideo.*—Anales del Museo de historia natural de Montevideo. Montevideo. [740 N. B.]
- An. Mus. nac. B. Aires.*—Anales del Museo Argentino de ciencias naturales Bernadino Rivadavia. Buenos Aires. [736 N. R.]
- An. Mus. nac. Chile.*—Anales del Museo nacional de Chile. Santiago de Chile. [737 N. B.]
- An. Mus. nac. Méx.*—Anales del Museo nacional (de arqueología, historia, y etnología) de México. [735 N. B.]
- An. Soc. Argent. Est. Geogr. Gaea.*—See under *Gaea*.
- An. Soc. cient. argent. Buenos Aires.*—Anales de la Sociedad científica argentina. Buenos Aires. [746 N. B.]
- An. Soc. cient. Santa Fé.*—Anales de la Sociedad científica de Santa Fé, Argentina. [746a N.]
- An. Univ. Chile.*—Anales de la Universidad de Chile. Santiago. [753 N. B.]
- An. Zool. aplic. Santiago.*—Anales de zoología aplicada. Santiago de Chile. [759 Nz. I.]
- Anal. Acad. române București.*—Analele Academiei Române. Memoriile Secțiunii Stiințifice. București. [703 N.]
- Anat. Anz.*—Anatomischer Anzeiger. Jena. [766 Nz. Sc.]
- Anat. Rec. Philadelphia.*—Anatomical Record. Philadelphia. [763 Nz. Sc.]
- Anex. Mem. Inst. Butantan S. Paulo.*—Anexos das Memorias do Instituto de Butantan, Secção de botânica. São Paulo. [769 N.]
- Ann. Acad. Bras. Sci., Rio.*—Annaes da Academia Brasileira de Ciencias. Rio de Janeiro. [778b N.]
- Ann. Anat. path. Paris.*—Annales d'Anatomie pathologique. Paris. [811b M.]
- Ann. appl. Biol. Cambridge.*—Annals of Applied Biology. Cambridge. [1025 N. Sc.]
- Ann. Carnegie Mus. Pittsburgh.*—Annals of the Carnegie Museum. Pittsburgh. [1035 N.]
- Ann. Durban Mus.*—Annals of the Durban Museum. Durban. [1038 N. Z.]
- Ann. Ent. Soc. Amer. Columbus.*—Annals of the Entomological Society of America. Columbus, Ohio. [1039 Nz. I.]
- Ann. Épiphyt. Paris.*—Annales du Service des Épiphyties. Paris. [919 N. I.]
- Ann. Fac. Med. S. Paulo.*—Annaes da Faculdade de Medicina de São Paulo. São Paulo. [780b N. I.]
- Ann. Fac. Sci. Marseille.*—Annales de la Faculté des Sciences de Marseille. Marseille. [836 N. B.]

- Ann. Géol. Paléont. Palermo.*—Annales de géologie et de paléontologie. Palermo. [841 Ng. Sc.]
- Ann. géol. Pén. balkan. Belgrade.*—Annales Géologiques de la Péninsule Balkanique. Beograd (Belgrade). [9074 Ng. Sc.]
- Ann. hist.-nat. Mus. hung.*—Annales Historico-Naturales Musei Nationalis Hungarici. Budapest. [845 N. Z.]
- Ann. Inst. océanogr. Paris.*—Annales de l'Institut Océanographique. Paris [856 N.]
- Ann. Inst. Pasteur. Paris.*—Annales de l'Institut Pasteur. Paris. [857 N. Sc.]
- Ann. Inst. Polytech. Don Novotcherkassk.*—Annales de l'Institut Polytechnique du Don à Novotcherkassk. [10288 N.]
- Ann. Inst. Reg. Hung. Geol.*—Annales Instituti Regii Hungarici Geologici. Budapest. [10589a Ng.]
- Ann. Lenin State Univ. Baku.*—Annals of the V. J. Lenin State University of Azerbaijan. Baku. [10292b N.]
- Ann. Mag. nat. Hist.*—Annals and Magazine of Natural History. London. [1050 N. Sc.]
- Ann. Manchuria Res. Soc. Harbin.*—Annals of the Manchuria Research Society. Harbin. [21859a N.]
- Ann. Mus. colon. Marseille.*—Annales du Musée colonial de Marseille. [880a N.]
- Ann. Mus. Congo.*—Annales du Musée du Congo belge. Bruxelles. [881 N. B.]
- Ann. Mus. Hist. nat. Marseille.*—Annales du Musée d'histoire naturelle de Marseille. [882 N. Sc.]
- Ann. Mus. Stor. nat. Genova.*—Annali del Museo civico di storia naturale. Genova. [1004 Nz. I.]
- Ann. Mus. zool. polon.*—Prace Zoologiczne Polskiego Państwowego Muzeum Przyrodniczego. Annales Musei Zoologici Polonici. Warszawa. [16450 Nz. I.]
- Ann. N.Y. Acad. Sci.*—Annals of the New York Academy of Sciences. New York. [1051 N. U.]
- Ann. Natal. Mus. P'mburg.*—Annals of the Natal Museum. Pietermaritzburg. [1049 N. U.]
- Ann. naturh. Mus. Wien.*—Annalen des Naturhistorischen Museums in Wien. [795 N. Sc.]
- Ann. Paléont. Paris.*—Annales de paléontologie. Paris. [899 Ng. Sc.]
- Ann. Parasitol. Paris.*—Annales de Parasitologie humaine et comparée. Paris. [899a N. I.]
- Ann. Physiol. Physicochem. biol. Paris.*—Annales de Physiologie et de la Physico-chimie biologique. Paris. [901a U.]
- Ann. Protistologie, Paris.*—Annales de Protistologie. Paris. [909a N.]
- Ann. Qd. Mus. Brisbane.*—Annals of the Queensland Museum. Brisbane. [1057 N. U.]
- Ann. R. Ist. sup. agr. Portici.*—Annali del Regio Istituto Superiore Agrario di Portici (printed Spoleto). [994b N.]
- Ann. S. Afr. Mus.*—Annals of the South African Museum. Cape Town. [1060 N. Sc.]
- Ann. Sci. nat. Paris.*—Annales des sciences naturelles. (Zoologie.) Paris. [915 Nz. Sc.]
- Ann. sci. Univ. Jassy.*—Annales scientifiques de l'Université de Jassy. Jassy. [918 N. Sc.]

- Ann. Soc. Cult. Com. Szombathely.*—Annales Societatis Culturalis Comit. Castriferrei et Civit. Sabariae et Musei Comit. Castriferrei. Szombathely, Hungary. [8082b N.]
- Ann. Soc. ent. Fr.*—Annales de la Société entomologique de France. Paris. [937 Nz. I.]
- Ann. Soc. géol. Belge.*—Annales de la Société géologique de Belgique. Liège. [939 Ng. G.]
- Ann. Soc. géol. Nord, Lille.*—Annales de la Société géologique du Nord. Lille. [940 Ng. G.]
- Ann. Soc. Hort. Hist. nat. Montpellier.*—Annales de la Société d'Horticulture et d'Histoire Naturelle de l'Hérault. Montpellier. [945 Sc.]
- Ann. Soc. linn. Lyon.*—Annales de la Société linnéenne de Lyon. [949 N. R.]
- Ann. Soc. sci. Bruxelles.*—Annales de la Société scientifique de Bruxelles. Louvain. [966 N. B.]
- Ann. Soc. sci. méd. nat. Bruxelles.*—Annales et Bulletin. (Société R. des Sciences médicales et naturelles de Bruxelles.) [963 Sc.]
- Ann. Soc. Sci. nat. Charente-Inf.*—Annales de la Société des sciences naturelles de la Charente-Inférieure. La Rochelle. [964 N.]
- Ann. Soc. zool. Belge.*—Annales de la Société R. zoologique de Belgique. Bruxelles. [968 Nz. B.]
- Ann. Soc. zool.-bot. fenn. Vanamo, Helsinki.*—Annales Societatis Zoolog.-Botanicae Fennicae Vanamo, Helsinki (Helsingfors). [20742c N.]
- Ann. Sta. Oceanogr. Salammbô Tunis.*—Station Océanographique de Salammbô. Annales. Tunis. [971a N.]
- Ann. Transv. Mus.*—Annals of the Transvaal Museum. Pretoria. [1062 N. R.]
- Ann. Trop. Med. Parasit. L'pool.*—Annals of Tropical Medicine and Parasitology. Liverpool. [1063 Nz. S.]
- Ann. Univ. Grenoble.*—Annales de l'Université de Grenoble. Paris. [975 U.]
- Ann. Univ. Lyon.*—Annales de l'Université de Lyon. I. Sciences, Médecine. Lyon. [976 N. B.]
- Ann. Univ. Minsk.*—Les Annales de l'Université de la Blanche-Ruthénie. Minsk. [21807a N.]
- Ann. Univ. tosc. Pisa.*—Annali delle Università toscane. Pisa. [1021 N. G.]
- Année biol. Paris.*—Année biologique. Paris. [1064 N. Sc.]
- Annot. Orn. orient. Tokyo.*—Annotationes Ornithologiae Orientalis. Tokyo. [1071d Nz.]
- Annot. zool. jap.*—Annotationes Zoologicae Japonenses. Tokyo. [1072 Nz. Sc.]
- Annu. Mus. zool. Univ. Napoli.*—Annuario. R. Museo zoologico della R. Università di Napoli. Napoli. [1535 Nz. I.]
- Annu. Soc. paléont. Russe.*—Annuaire de la Société Paléontologique de Russie. Leningrad. [8160 Ng.]
- Anthrop. Anz. Stuttgart.*—Anthropologischer Anzeiger. Stuttgart. [1557b S.]
- Anthropologie, Paris.*—L'Anthropologie. Paris. [1557 B. S.]
- Annu. Univ. Sofia.*—Annuaire de l'Université de Sofia. [9234 N.]
- Annual Report.* See under *Rep.*
- Annual Cl. nat. Sci. Geogr. Y.M.C.A. Harbin.*—The Annual of the Club of Natural Science and Geography of the Y.M.C.A., Harbin, Manchuria. [N.]
- Anuar. Inst. geol. Rom'in. București.*—Anuar Institutului geologic al României. București. [1566 Ng. G.]

- Anz. Akad. Wiss. Wien.*—Anzeiger der Akademie der Wissenschaften. Math.-nat. Kl. Wien. [1582 N. B.]
- Anz. orn. Ges. Bayern.*—Anzeiger der Ornithologischen Gesellschaft in Bayern. München. [1591 Nz. Tr.]
- Anz. Schädlingssk. Berlin.*—Anzeiger für Schädlingsskunde zugleich Nachrichtenblatt der Deutschen Gesellschaft für angewandte Entomologie e.v. Berlin. [1591a I.]
- Aquar. Berlin.*—Das Aquarium. Berlin. [1613b Nz.]
- Aquar. Philadelphia.*—Aquarium. Philadelphia, Pa. [1614 Nz.]
- Aquila, Budapest.*—Aquila. A magyar Ornithologiai Központ folyóirata. Budapest. [1617 Nz. I.]
- Arb. anat. Inst. Sendai.*—Arbeiten aus dem Anatomischen Institut der K. Japanischen Universität zu Sendai. Tokyo. [1624 U. S.]
- Arb. bayer. Landesanst. PflBau.*—Arbeiten aus der Bayerischen Landesanstalt für Pflanzenbau und Pflanzenschutz. Freiburg-München. [1627a Nz.]
- Arb. biol. Anst. Land-Forstwirt. Berlin.*—Arbeiten aus der Biologischen Reichsanstalt für Land- und Forstwirtschaft. Berlin. [1628 N. I.]
- Arb. biol. Meeressta. Varna.*—Arbeiten aus der biologischen Meeresstation am Schwarzen Meer in Varna, Bulgarien. [N.]
- Arb. biol. Oka-Sta. Murom.*—Arbeiten der Biologischen Oka-Station zu Murom, Russland. [17548c N. I.]
- Arb. biol. Wolga-Stat. Saratow.*—Arbeiten der Biologischen Wolga-Station. Saratow. [17549c Nz. I.]
- Arb. hirnanat. Inst. Zürich.*—Arbeiten aus dem Hirnanatomischen Institut in Zürich. Wiesbaden. [1650 U.]
- Arb. limnolog. Sta. Kossino.*—Arbeiten der Limnologischen Station zu Kossino (bei Moskau). Moskau. [21843a N.]
- Arb. morph. taxon. Entom. Berlin.*—Arbeiten über morphologische und taxonomische Entomologie aus Berlin-Dahlem. [Nz.]
- Arb. NaturfVer. Riga.*—Arbeiten der Naturforscher-Vereins zu Riga. Riga. [1669 N.]
- Arb. Nord-Kaukas. Assoc. Rostov-am-Don.*—Arbeiten der Nord-Kaukasischen Association wissenschaftlicher Institute. Rostov-am-Don. [21904c N.]
- Arb. path. Anat. Bakt. Leipzig.*—Arbeiten auf den Gebiet der pathologischen Anatomie u. Bakteriologie a.d. Pathologisch-anatomischen Institut zu Tübingen. Leipzig. [1671 S. B.]
- Arb. physiol. angew. Entom. Berlin.*—Arbeiten über physiologische u. angewandte Entomologie aus Berlin-Dahlem. [Nz.]
- Arb. Ung. Biol. Forsch. Inst.*—Arbeiten des Ungarischen Biologischen Forschungsinstitutes. Tihany, Hungary. [1678e N. Sc.]
- Arb. zool. Inst. Univ. Innsbruck.*—Arbeiten aus dem Zoologischen Institut der Universität Innsbruck (pted. Berlin). [1682 Nz.]
- Arb. zool. Vorsch. Inst. Moskau.*—Arbeiten des Zoologischen Vorschungsinstitut. Moskau. [Nz. I.]
- Arch. Anat. Hist. Embr. Strasbourg.*—Archives d'Anatomie, d'Histologie et d'Embryologie. Strasbourg. [1822 U.]
- Arch. Anat. micr. Paris.*—Archives d'anatomie microscopique. Paris. [1823 N. U.]
- Arch. Biol. Liège.*—Archives de biologie. Liège et Paris. [1825 Nz. Sc.]
- Arch. Biol. Soc. Sci. Varsovie.*—Archives de Biologie de la Société des Sciences et des Lettres de Varsovie. (Warszawa.) [1979e N.]

- Arch. Biontol. Berlin.*—Archiv für Biontologie. Gesellschaft naturforschenden Freunde zu Berlin. [1746 N.]
- Arch. Entw. Mech. Org. Berlin.*—Wilhelm Roux' Archiv für Entwicklungsmechanik der Organismen. (Abt. D. Zeitschrift für wissenschaftliche Biologie.) Berlin. [1756 Nz.]
- Arch. Esc. Agric. Med. vet. Rio de J.*—Archivos da Escola superior de agricultura e medicina veterinaria. Rio de Janeiro. [1957 N. I.]
- Arch. exp. Path. Pharmak. Leipzig.*—Archiv für experimentelle Pathologie u. Pharmakologie. Leipzig. [1758 S. U.]
- Arch. exp. Zellforschung, Jena.*—Archiv für experimentelle Zellforschung besonders Gewebezüchtung (Explantation). Jena. [1759a Sc. U.]
- Arch. Fisiol. Firenze.*—Archivio di fisiologia. Firenze. [1924 U. R.]
- Arch. gesamt. Physiol.* See *Pflügers Arch. ges. Phys.*
- Arch. gesamt. Psychol. Leipzig.*—Archiv für die gesamte Psychologie. Leipzig. [1763 U. B.]
- Arch. Gesch. Mat. Naturw. Tech. Leipzig.*—Archiv für die Geschichte der Mathematik, der Naturwissenschaften u. der Technik. Leipzig. [1765 Sc. U.]
- Arch. Hydrobiol. Stuttgart.*—Archiv für Hydrobiologie. Stuttgart. [1769 N. Sc.]
- Arch. Hydrobiol. Ichthyol. Suwaki.*—Archives d'Hydrobiologie et d'Ichthyologie. Suwaki, Poland. [1979a N.]
- Arch. Hyg. Berlin.*—Archiv für Hygiene und Bakteriologie. München u. Berlin. [1770 S. M.]
- Arch. Insektenk. Oberrhein.*—Archiv für Insektenkunde des Oberrheingebietes und der angrenzenden Länder. Früher Mitteilungen der Badischen Entomologischen Vereinigung. Freiburg im Breisgau. [1770a I.]
- Arch. Inst. bact. Cam. Pest. Lisboa.*—Archivos do real Instituto bacteriologico Camara Pestana. Lisboa. [1965 N. I.]
- Arch. Inst. Biol. São Paulo.*—Archivos do Instituto biológico de defesa agricola e animal. São Paulo, Brazil. [1965a N. I.]
- Arch. Inst. Paléont. humaine, Paris.*—Archives de l'Institut de Paléontologie Humaine. Paris. [1842a N.]
- Arch. Inst. Pasteur Alger.*—Archives de l'Institut Pasteur d'Algérie. Alger. [1842b N.]
- Arch. Inst. Pasteur, Indochine.*—Archives des Instituts Pasteur d'Indochine. Saigon. [1844a N.]
- Arch. Inst. Pasteur Tunis.*—Archives de l'Institut Pasteur de Tunis. Tunis. [1843 N. I.]
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- Arch. Ld.-u. Volksk. Sachsen.*—Archiv für Landes- u. Volkskunde d. Prov. Sachsen nebst angrenz. Landesteilen. Halle a. S. [1775 B.]
- Arch. Math. Naturv. Oslo.*—Archiv for Matematik og Naturvidenskab. Oslo (Kristiania). [1778 N. B.]

- Arch. melit.*—Archivum Melitense. Journal of the Malta Historical and Scientific Society. Valetta. [1978 N. B.]
- Arch. mikr. Anat. Bonn.*—Archiv für mikroskopische Anatomie. Bonn. [1780 Nz. Sc.]
- Arch. Mikrobiol. Berlin.*—Archiv für Mikrobiologie. Berlin. [1779b N.]
- Arch. Molluskenk. Frankfurt a.M.*—Archiv für Molluskenkunde. Frankfurt a.M. [1781 Nz. Z.]
- Arch. Morph. gén. exp. Paris.*—Archives de morphologie générale et expérimentelle. Paris. [1873 N. U.]
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- Arch. Mus. Paris.*—Archives du Muséum d'histoire naturelle. Paris. [1874a N.]
- Arch. Mus. Teyler, Haarlem.*—Archives du Musée Teyler. Haarlem. [1874 N. B.]
- Arch. Naturgesch. Berlin.*—Archiv für Naturgeschichte. Berlin. [1782 Nz. Sc.]
- Arch. Naturk Estl. Dorpat.*—Archiv für die Naturkunde Estlands. Dorpat (Tartu). [1782a N.]
- Arch. néerland. Sci. La Haye.*—Archives Néerlandaises des Sciences Exactes et Naturelles publiées par la Société Hollandaise des Sciences à Haarlem. Sér. A. Sciences exactes. B. Sciences naturelles. C. Arch. neerl. de Physiologie de l'Homme et des Animaux. La Haye. [1877 N. Sc.]
- Arch. neerl. Zool.*—Archives néerlandaises de Zoologie. Leiden. [Cont. of Tijds. ned. dierk. Ver.] [21275 Nz. Sc.]
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- Arch. portug. Sci. biol.*—Archives portugaises des sciences biologiques. Lisboa. [1894 N. I.]
- Arch. Protistenk. Jena.*—Archiv für Protistenkunde. Jena. [1793 N. Sc.]
- Arch. Rass.-GesBiol. Leipzig.*—Archiv für Rassen- u. Gesellschaftsbiologie einschl. Rassen- u. Gesellschaftshygiene. Leipzig-Berlin. [1800 U. B.]
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- Arch. suisses d'Orn.*—Archives suisse d'Ornithologie. Schweizerisches Archiv für Ornithologie. Berne. [1909a Nz.]
- Arch. Ver. Fr. Naturg. Mecklenb.*—Archiv des Vereins der Freunde der Naturgeschichte in Mecklenburg. Güstrow, Rostock. [1813 N. B.]
- Arch. wiss. prakt. Tierhkl. Berlin.*—Archiv für wissenschaftliche u. praktische Tierheilkunde. Berlin. [1818 S. B.]
- Arch. Zellforsch. Leipzig.*—Archiv für Zellforschung. Leipzig. [1820 Sc. L.]
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- Arch. zool. Torino.*—Archivio zoologico italiano. Torino. [1949 Nz. B.]
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- Ark. Zool. Stockholm*.—Arkiv för zoologi. Stockholm. [2006 Nz. I.]
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- Årstr. Göteborgs Mus.*—Årstryck. Göteborgs Museum. Göteborg. [2022 N.]
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- Atti Acc. Nuovi Lincei*. See *Acta pont. Acad.*
- Atti Acc. Padova*.—Atti e Memorie dell' Accademia di scienze, lettere ed arti. Padova. [2129 N. B.]
- Atti Acc. Palermo*.—Atti della Reale Accademia di scienze, lettere ed arti. Palermo. [2130 N. B.]
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- Atti Acc. Sci. fis. mat. Napoli*.—Atti dell' Accademia delle scienze fisiche e matematiche. Napoli. [2128 N. B.]
- Atti Acc. sci. ven.-trent.-istr. Padova*.—Atti della Accademia scientifica veneto-trentino-istrian. Padova. [2126 N. B.]
- Att. Acc. Torino*.—Atti della R. Accademia delle scienze. Torino. [2127 N. Sc.]
- Atti Ist. veneto*.—Atti del R. Istituto veneto di scienze, lettere ed arti. Scienze mat. e nat. Venezia. [2176 N. B.]
- Atti Mus. Stor. nat. Trieste*.—Atti del Museo Civico di Storia Naturale di Trieste. [2178 N.]
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- Aust. Mus. Mag. Sydney*.—Australian Museum Magazine. Sydney. [2249a N.]
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- Beitr. Geol. Thüringen, Jena.*—Beiträge zur Geologie von Thüringen. Jena. [2486 Ng.]
- Beitr. Kunde Estlands, Reval.*—Beiträge zur Kunde Estlands. Reval. [2517 B.]
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- Beitr. Zoogeog. paläark. Reg. München.*—Beiträge zur Zoogeographie der paläarktischen Region. München. [2542 B.]
- Ber. annaberg.-buchh. Ver. Naturk.*—Bericht über den Annaberg.-Buchholzer Verein für Naturkunde. Annaberg im Erzgebirge. [2601 N.]
- Ber. deutsch. wiss. Kom. Meeresforsch. Berlin.*—Berichte der Deutschen wissenschaftlicher Kommission für Meeresforschung. Berlin. [2635b Nz.]
- Ber. intern. Ges. Erhalt. Wisents, Berlin.*—Bericht der Internationalen Gesellschaft zur Erhaltung des Wisents. Berlin. [2659b Z.]
- Ber. microbiol. Staats-Inst. Rostow-am-D.*—Bericht des Microbiologischen Staats-Instituts zu Rostow-am-Don. [10328e N. I.]
- Ber. naturf. Ges. Bamberg.*—Bericht der Naturforschenden Gesellschaft in Bamberg. Bamberg. [2700 N.]
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- Ber. naturh. Mus. Bern.*—Bericht des Städtischen Naturhistorischen Museums, Bern. [2749 N.]
- Ber. naturw. Ges. Chemnitz.*—Bericht der Naturwissenschaftlichen Gesellschaft zu Chemnitz. Chemnitz. [2706 N.]
- Ber. naturw. Ges. Isis, Bautzen.*—Bericht über die Tätigkeit der Naturwissenschaftlichen Gesellschaft Isis in Bautzen. [2707 N.]
- Ber. naturw. Ver. Augsburg.*—Bericht des Naturwissenschaftlichen Vereins für Schwaben und Neuburg (E.V.) früher Naturhistorischen Vereins in Augsburg. Augsburg. [2713 N.]
- Ber. naturw. Ver. Dessau.*—Bericht des Naturwissenschaftlichen Vereins in Dessau (Anhalt). [2709a N.]
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- Ber. naturw. Ver. Regensburg.*—Bericht des Naturwissenschaftlichen Vereins zu Regensburg. Regensburg. [2712 N. B.]
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- Ber. nordoberfränk. Ver. Naturk. Hof.*—Bericht der Nordoberfränkischen Vereins für Natur-, Geschichts- u. Landeskunde. Hof. [2717 N.]
- Ber. oberhess. Ges. Giessen.*—Bericht der Oberhessischen Gesellschaft für Natur- und Heilkunde zu Giessen. [2718 N.]
- Ber. offenbach. Ver. Naturk.*—Bericht über die Tätigkeit des Offenbacher Vereins für Naturkunde. Offenbach a.M. [2722 N.]
- Ber. Ohara Inst.*—Bericht des Ohara Instituts für Landwirtschaftliche Forschungen. Kuraschiki. [2723 Nz. I.]
- Ber. sächs. Akad. Wiss.*—Bericht über die Verhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Math.-phys. Kl. [2765 N. Sc.]
- Ber. senckenb. naturf. Ges. Frankfurt a.M.*—See *Natur u. Museum.*
- Ber. Tomske Staats-Univ.*—Berichte der Tomske Staats-Universität. Tomsk. [21923 N.]
- Ber. Ver. schles. Orn.*—Bericht des Vereins Schlesischer Ornithologen. Neisse. [2760 Nz. T.]
- Ber. westpreuss. bot.-zool. Ver.*—Bericht des Westpreussischen Botanisch-zoologischen Vereins. Danzig. [2792 N. B.]
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- Bergens Mus. Aarb.*—Bergens Museums Aarbok. Naturvidenskabelig række. Bergen. [2583 N. B.]
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- Bibl. genet. 's Gravenhage.*—Bibliographia Genetica. 's Gravenhage. [2839b N.]
- Bibl. genet. Leipzig.*—Bibliotheca genetica. Leipzig. [2875a Sc.]
- Bidr. Finl. Nat. Folk.*—Bidrag till kännedom om Finlands Natur och Folk. Utgifna af Finska Vetenskaps-Societeten. Helsingfors. [2895 N. B.]
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- Bio-Chem. J. Cambridge.*—Bio-Chemical Journal. Cambridge. [2967 Sc. S.]
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- Biol. Listy, Praha.*—Biologické Listy. Praha. [Sc.]
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- Biol. Rev. Cambridge.*—Biological Reviews and Biological Proceedings of the Cambridge Philosophical Society. Cambridge. [2976b N.]
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- Biol. Zbl. Leipzig.*—Biologisches Zentralblatt. Leipzig. [2981 N. Sc.]

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- Biometrika, Cambridge*.—*Biometrika*. Cambridge. [2984 N. Sc.]
- Bird-banding, Boston*.—*Bird-banding*. A journal of ornithological investigation. Boston, U.S.A. [2992a Nz.]
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- Bl. Naturk. Niederöster*.—*Blätter für Naturkunde und Naturschutz Niederösterreichs*. Wien. [3019 N.]
- Bol. Acad. Barcelona*.—*Boletín de la R. Academia de ciencias y artes de Barcelona*. Barcelona. [3088 N. B.]
- Bol. Acad. Cienc. Córdoba*.—*Boletín de la Academia nacional de ciencias en Córdoba*. Argentina. [3091a G.]
- Bol. Acad. Sci. Lisboa*.—*Boletim da Academia das Sciencias de Lisboa*. [3057a N.]
- Bol. Agric. Com. Industr. Bahia*.—*Boletim da Agricultura Comercio e Industria*. Bahia. [3057d Nz.]
- Bol. Agric. S. Paulo*.—*Boletim de Agricultura*. São Paulo. [3059 N. I.]
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- Bol. Direcc. Estud. biol. Méx*.—*Boletín de la Direccion de estudios biológicos*. México. [3141 N. B.]
- Bol. Inst. bras. Sci. Rio*.—*Boletim do Instituto Brasileiro de Sciencias*. Rio de Janeiro. [3067c N. I.]
- Bol. Inst. geol. Esp*.—*Boletín del Instituto geológico y minero de España*. Madrid. [3166 Ng. Sc.]
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- Bol. Inst. Vital. Brazil*.—*Boletim do Instituto Vital Brazil*. Niteroi, Brazil. [3067h N.]
- Bol. Lab. Path. veg. Bahia*.—*Boletim do Laboratorio de Pathologia Vegetal do Estado da Bahia*. [3067i N. I.]
- Bol. Med. Hyg. Biol. S. Paulo*.—*Boletim de Medicina, Hygiene e Biologia*. São Paulo. [3067k I.]
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- Bol. Mus. Lab. min. geol. Lisboa*.—*Boletim do Museu e Laboratorio Mineralogico e Geologico da Universidade de Lisboa*. [3074b Ng.]
- Bol. Mus. nac. Chile*.—*Boletín del Museo nacional de Chile*. Santiago de Chile. [3200 N.]
- Bol. Mus. nac. Rio*.—*Boletim do Museu Nacional do Rio de Janeiro*. [3075a N. I.]
- Bol. Oceanogr. Pesc. Madrid*.—*Boletín de Oceanografía y Pescas*. (Instituto español de oceanografía.) Madrid. [3207e Nz. Z.]
- Bol. Serv. geol. min. Brasil*.—*Serviço Geologico e Mineralogico do Brazil*. Boletim. Rio de Janeiro. [3081c Ng.]
- Bol. Soc. ent. argent*.—*Boletín Sociedad entomológica Argentina*. Buenos Aires. [3229b Nz. I.]
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- Bol. Soc. ent. Esp*.—*Boletín de la Sociedad entomológica de España*. Madrid. [3230 Nz. I.]

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- Bol. Soc. ibér. Cienc. nat. Zaragoza.*—Sociedad ibérica de ciencias naturales. Boletín. Zaragoza. [3238b N.]
- Bol. Soc. venezolana Cienc. nat.*—Boletín de la Sociedad Venezolana de Ciencias naturales. Caracas. [N.]
- Boll. Acc. gioenia, Catania.*—Bollettino delle sedute dell' Accademia Gioenia di scienze naturali in Catania. Catania. [3351 N. R.]
- Boll. Com. talassogr. ital.*—Bollettino Bimestrale R. Comitato Talassographico Italiano. Venezia. [3274 N.]
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- Bull. Soc. Rech. congol.*—Bulletin de la Société des Recherches Congolaise. Brazzaville. [5341b N.]
- Bull. Soc. Russe Géogr.*—(Bulletin) Izvestia de la Société Russe de Géographie. Leningrad, Moscou. [10374 N.]
- Bull. Soc. sci. Bretagne.*—Bulletin de la Société Scientifique de Bretagne. Rennes. [5372a N.]
- Bull. Soc. sci. Dauphiné.*—Bulletin de la Société scientifique du Dauphiné. Grenoble. [5372b N. B.]
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- Bull. Soc. Sci. hist. nat. Corse.*—Bulletin de la Société des sciences historiques et naturelles de la Corse. Bastia. [5351 B.]
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- Bull. Soc. Sci. hist. nat. Yonne.*—Bulletin de la Société des sciences historiques et naturelles de l'Yonne. Auxerre. [5353 N.]
- Bull. Soc. Sci. Nancy.*—Bulletin des séances de la Société des sciences de Nancy et de la Réunion biologique de Nancy. Paris. [4863 N. B.]
- Bull. Soc. Sci. nat. Béziers.*—Bulletin de la Société d'étude des sciences naturelles de Béziers. Béziers. [5060 N. R.]
- Bull. Soc. Sci. nat. Maroc.*—Bulletin de la Société des sciences naturelles du Maroc. Rabat. [5365a N. I.]
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- Bull. Soc. Sci. nat. Ouest, Nantes.*—Bulletin de la Société des sciences naturelles de l'ouest de la France. Nantes. [5366 N. R.]
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- Bull. Soc. sci. Skoplje.*—Bulletin de la Société Scientifique di Skoplje (Uskub). [9213d N.]
- Bull. Soc. vaud. Sci. nat.*—Bulletin de la Société vaudoise des sciences naturelles. Lausanne. [5392 N. R.]
- Bull. Soc. zool. Fr.*—Bulletin de la Société zoologique de France. Paris. [5401 Nz. Sc.]
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- Bull. Sta. Aquicult. Alger.*—Bulletin des travaux publiés par la Station d'Aquiculture et de Pêche de Castiglione. Alger. [5578a Nz.]
- Bull. Sta. biol. Arcachon.*—Bulletin de la Station biologique d'Arcachon. Bordeaux. [5377 N. B.]
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- Bull. Sta. océanogr. Salammbô, Tunis.*—Bulletin. Station Océanographique de Salammbô. Tunis. [5438a N.]
- Bull. State oceanogr. Inst. Moscow.*—Bulletin of the State Oceanographical Institute. Moscow. [N.]
- Bull. Tennessee Div. Geol. Nashville.*—Bulletin. Department of Education Division of Geology. State of Tennessee. Nashville. [5563a Ng.]
- Bull. [or Trans.] Tomsk State Univ.*—Bulletin [or Transactions] of Tomsk State University. Tomsk. [21923a N.]
- Bull. U.S. Bur. Fish. Washington.*—Bulletin of the Bureau of Fisheries. Washington, D.C. [3938 N. Sc.]
- Bull. U.S. Dep. Agric.*—Bulletin. United States Dept. of Agriculture. Washington, D.C. [5641 N. Sc.]
- Bull. U.S. geol. Surv.*—Bulletin of the United States Geological Survey. Washington, D.C. [5658 Ng. Sc.]

- Bull. U.S. nat. Mus.*—Bulletin. United States National Museum. Smithsonian Institution. Washington, D.C. [5659 N. Sc.]
- Bull. Union Soc. sav. Polon. Lwów.*—Bulletin de l'union des Sociétés Savantes Polonaises de Léopol (Lwów). [5634 Sc.]
- Bull. Univ. Alberta.*—University of Alberta. Bulletin. Edmonton, Canada. [5663a Ng.]
- Bull. Univ. Arménie Erivan.*—Bulletin de l'Université d'Etat de la R.S.S. d'Arménie. Erivan. [10396a N.]
- Bull. Univ. Montana.*—Bulletin of the University of Montana. Missoula. [5674 N.]
- Bull. Univ. Tachkent.*—Bulletin de l'Université de l'Asie Centrale. Tachkent. [5661a N.]
- Bull. Univ. Utah.*—Bulletin of the University of Utah. Salt Lake City. [5699 N.]
- Bull. Vanderbilt Mar. Mus. Huntingdon.*—Bulletin of the Vanderbilt Marine Museum. Huntingdon, Long Island, U.S.A. [5699b N.]
- Bull. Wagner Free Inst. Philad.*—Bulletin of the Wagner Free Institute. Philadelphia. [5718d N.]
- Bull. Wis. geol. nat. Hist. Surv.*—Bulletin of the Wisconsin Geological and Natural History Survey. Madison. [5741 Sc. B.]
- Bull. zool. Soc. S. Diego.*—Zoological Society of San Diego. Bulletin. San Diego, California. [5757c Nz.]
- Butll. Cl. montanyenc.*—Butlletí del Club montanyenc. Associació de ciències naturals i excursions. Barcelona. [5775 N. G.]
- Butll. Inst. catal. Hist. nat.*—Butlletí de la Institució catalana d'història natural. Barcelona. [5776 N. I.]
- C.R. Acad. Cracovie.*—Comptes Rendus mensuel des séances mathématiques et naturelles. Académie Polonaise des Sciences et des Lettres. Cracovie. [6641a N.]
- C.R. Acad. Sci. Paris.*—Compte rendu hebdomadaire des séances de l'Académie des sciences. Paris. [6628 N. Sc.]
- C.R. Acad. Sci. Leningrad.*—Comptes Rendus de l'Académie des Sciences de U.R.S.S. Leningrad. [7450a N.]
- C.R. Ass. Anat. Paris.*—Compte rendu de l'Association des anatomistes. Paris & Nancy. [6593 U.]
- C.R. Ass. franc. Av. Sci.*—Compte rendu de l'Association française pour l'avancement des sciences. Paris. [6595 N. Sc.]
- C.R. Congr. geol. Internat.*—Congrès Géologique Internationale. Comptes Rendus. [Madrid, etc.] [24008 Ng.]
- C.R. Congr. Soc. Sav. Paris.*—Compte Rendu du Congrès des Sociétés Savantes de Paris et des Départements: Section des Sciences. Paris. [6614 N.]
- C.R. Congr. Nat. Naturalistes, Roumanie.*—Compte rendu des séances. Congrès National des Naturalistes de Roumanie. Cluj. [N. 6643a.]
- C.R. Lab. Carlsberg, Copenh.*—Compte rendu des travaux du Laboratoire de Carlsberg. Copenhague. [6632 N. Sc.]
- C.R. Séan. Soc. Sci. Lett. Varsovie.*—Compte Rendu des séances de la société des sciences et des lettres de Varsovie. Warszawa. [20523 N.]
- C.R. Soc. Biogéographie, Paris.*—Compte Rendu sommaire des séances de la Société de Biogéographie. Paris. [6675a N.]
- C.R. Soc. Biol. Paris.*—Compte rendu hebdomadaire des séances et mémoires de la Société de biologie. Paris. [6630 N. S.]

- C.R. Soc. Phys. Hist. nat. Genève.*—Compte rendu des séances de la Société de physique et d'histoire naturelle de Genève. [6657 N. Z.]
- Calif. Fish Game.*—California Fish and Game. Sacramento. [5835 Sc. Z.]
- Canad. Ent.*—Canadian Entomologist. Orillia, Ont. [5884 Nz. I.]
- Canad. Field Nat.*—Canadian Field Naturalist. Ottawa. [5888 N. Z.]
- Canad. J. Res. Ottawa.*—Canadian Journal of Research. Ottawa. [5898a N.]
- Capita zool. 's Gravenhage.*—Capita zoologica. 's Gravenhage. [5943 Nz. Z.]
- Carniola, Laibach.*—Carniola. Izvestja Muzejskega društva za Kranjsko. v Ljubljani. [i.e., Laibach.] [5957 N. B.]
- Čas. Čech. Spol. Ent.*—See *Acta Soc. ent. Českoslow.*
- Cas. morav. Mus. Brně.*—Časopis Moravského Zemského Musea. Acta Musei Moraviensis. Brně (= Brünn). [5979 N.]
- Cassinia, Philadelphia.*—Cassinia. Proceedings of the Delaware Valley Ornithological Club. Philadelphia, Pa. [5990 Nz.]
- Cellule, Louvain.*—Cellule. Lierre et Louvain. [6011 Nz. Sc.]
- Centralb. Min. Geol. Paläont. Stuttgart.*—Centralblatt für Mineralogie, Geologie u. Paläontologie. Stuttgart. [23731 Ng. B.]
- Ceylon J. Sci.*—See under *Bull. Ceylon Fisheries* and *Spolia Zeylanica*.
- Charleston Mus. Leaflet.*—The Charleston Museum Leaflets. Charleston, U.S.A. [N.]
- China J. Shanghai.*—The China Journal. Shanghai, China. [6176a N.]
- Chinese med. J.*—Chinese Medical Journal. Shanghai. [6177 I. B.]
- Chinese J. Physiol.*—Chinese Journal of Physiology. Peking. [6177a M.R.]
- Circ. Oklahoma geol. Surr.*—Circular. Oklahoma Geological Survey. Norman, Oklahoma. [6325 Ng.]
- Coleopt. Centralb. Berlin.*—Coleopterologisches Centralblatt. Berlin. [6463a Nz.]
- Coleopt. Contr. Chicago.*—Coleopterological Contributions. Published and Sold by Frank J. Psota, M.D. Chicago, Ill. [6463 Nz.]
- Comment. biol. Helsingfors.*—Societas Scientiarum Fennica. Commentationes Biologicae. Helsingfors. [6539 N. B.]
- Commun. Comm. geol. Portugal.*—Comunicações da Comissão dos trabalhos geológicos (do serviço geológico) de Portugal. Lisboa. [6572 Ng. G.]
- Commun. paléont. Copenh.*—Communications paléontologiques. Muséum de minéralogie et de géologie de l'Univ. de Copenhague. [6579 Ng.]
- Condor Berkeley, Cal.*—Condor. (Cooper Ornithological Club.) Berkeley, Cal. [6694 Nz. Z.]
- Conf. Res. Cien. R. Soc. esp. Hist. nat.*—Conferencias y Reseñas Científicas de la Real Sociedad Española de Historia Natural. Madrid. [6703c N.]
- Consigl. naz. Ricer. Conveg. Biol.*—Consiglio nazionale delle ricerche. Convegni Biologici. Napoli; Bologna, etc. [N.]
- Contr. Baylor Univ. Mus. Waco, Texas.*—Contributions from Baylor University Museum. Waco, Texas. [6781b N.]
- Contr. biol. Lab. Princeton Univ.*—Contributions from the Biological Laboratories in Princeton University. Princeton, N.J. [6783 Nz.]
- Contr. Biol. Lab. Sci. Soc. China, Nanking.*—Contributions from the Biological Laboratory of the Science Society of China. Nanking. [6783b N.]
- Contr. Canad. Biol.*—Contributions to Canadian Biology and Fisheries. Toronto. [6792 Nz. Sc.]

- Contr. Canad. Palaeont.*—Contributions to Canadian Palaeontology. Ottawa. [6793 Ng. Sc.]
- Contr. Cushman Lab. Foraminif. Sharon, Mass.*—Contributions from the Cushman Laboratory for Foraminiferal Research, Sharon, Mass. [6801a Nz.]
- Contr. Embryol. Carn. Instn.*—Contributions to Embryology. (Publications of the Carnegie Institution.) Washington, D.C. [6816 Nz. Sc.]
- Contr. Inst. Zool. Peiping.*—Contributions from the Institute of Zoology. National Academy of Peiping. [N.]
- Contr. Mus. Pal. Univ. Michigan.*—Contributions from the Museum of Palaeontology, University of Michigan, Ann Arbor. [6837a Ng.]
- Contr. nat. Res. Inst. Geol. Shanghai.*—Contributions from the National Research Institute of Geology. Academia Sinica. Shanghai. [6837b Ng.]
- Contr. Nyström Inst. Taiyuanfu.*—Contributions from the Nyström Institute for Scientific Research in Shansi, Taiyuanfu. N. China. [6841 N.]
- Contr. Ont. Mus. Zool. Toronto.*—Contributions of the Royal Ontario Museum of Zoology. Toronto. [6842a Nz.]
- Contr. Walker Mus. Chicago.*—Contributions from the Walker Museum of the University of Chicago. Chicago, Ill. [6855 Ng.]
- Contr. Zool. Lab. Univ. Penn.*—Contributions from the Zoological Laboratory, Univ. of Pennsylvania. Philadelphia. [6860 Nz. B.]
- Copeia, Ann Arbor.*—Copeia. Ann Arbor, Mich. [6877 Nz.]
- Danm. geol. Undersog.*—Danmarks geologiske Undersøgelse. Kjøbenhavn. [7067 Ng. G.]
- Dansk. orn. Foren. Tidsskr.*—Dansk ornithologisk Forenings Tidsskrift. Kjøbenhavn. [7082 Nz.]
- Denkschr. Akad. Wiss. Wien.*—Denkschriften der Akademie der Wissenschaften. Math.-nat. Kl. Wien. [7134 N. Sc.]
- Denkschr. med.-naturw. Ges. Jena.*—Denkschriften der Medizinisch-naturwissenschaftlichen Gesellschaft zu Jena. [7137 N. Sc.]
- Denkschr. Schweiz. naturf. Ges.*—See under *Mém. Soc. helv. Sci. ant.*
- Deuts. ent. Z.*—Deutsche entomologische Zeitschrift. Berlin. [7214 Nz. B.]
- Deuts. ent. Z. "Iris" Dresden.*—Deutsche Entomologische Zeitschrift "Iris." (Lepidoptera only.) Dresden. [7215 Nz.]
- Dobuts. Zasshi, Tokyo.*—Dobutsugaku Zasshi: a monthly magazine of Zoology. Published by the Zoological Society of Japan. Tokyo. [23822a Nz.]
- Dpt. Bull. U.S. Dept. Agric.*—See under *Bull. U.S. Dept. Agric.*
- Échange, Lyon.*—Échange. Revue linnéenne. Lyon. [7531 N.]
- Ecl. geol. Helv.*—Eclogae geologicae Helvetiae. Lausanne. [7574 Ng. Sc.]
- Ecol. Monogr. Durham, N.C.*—Ecological Monographs. Official publication of the Ecological Society of America. Durham, N.C. [7581a N.]
- Ecology, Brooklyn.*—Ecology, Brooklyn, N.Y. [7582 Nb.]
- Egatea, Porto Alegre.*—Egatea. Revista da Universidade Technica de Porto Alegre. [7611 I.]
- Emu, Melbourne.*—Emu. Melbourne. [7795 Nz. Z.]
- Ent. amer. Brooklyn.*—Entomologia Americana, a Journal of Entomology published by the Brooklyn Entomological Society. (Printed Lancaster, Pa.) [7868a Nz. I.]
- Ent. Anz. Wien.*—Entomologischer Anzeiger. Wien. [7832 Nz.]
- Ent. Beihft. Berlin-Dahlem.*—Entomologische Beihefte aus Berlin-Dahlem. [Nz.]

- Ent. Ber.* 's Gravenhage.—Entomologische Berichten. Nederlandsche entomologische vereniging. 's Gravenhage. [7875 Nz. I.]
- Ent. Bl. Berlin.*—Entomologische Blätter. Berlin. [7876 Nz. I.]
- Ent. Bull. Jamaica.*—Entomological Bulletin. Department of Agriculture. Jamaica. Kingston. [7868b Nz. Sc.]
- Ent. Jahrb. Leipzig.*—Entomologisches Jahrbuch. Leipzig. [7883 Nz. I.]
- Ent. Medd. Kjøbenh.*—Entomologiske Meddeleser. Kjøbenhavn. [7886 Nz. I.]
- Ent. Mem. Dept. Agr. Pretoria.*—Entomology Memoirs. Union of South Africa. Department of Agriculture. Pretoria. [7891 I.]
- Ent. mon. Mag. London.*—Entomologist's Monthly Magazine. London. [7888 Nz. E.]
- Ent. Nachr. Troppau.*—Entomologisches Nachrichtsblatt. Troppau. [7883a Nz. E.]
- Ent. News, Philad.*—Entomological News. Academy of Natural Sciences. Philadelphia. [7871 Nz. I.]
- Ent. Phytopath. Hangchow.*—Entomology and Phytopathology. Hangchow. [7890a Nz.]
- Ent. Rdsch. Stuttgart.*—Entomologische Rundschau. Stuttgart. [7880 Nz. E.]
- Ent. Rec. London.*—Entomologists' Record and Journal of Variation. London. [7889 Nz. E.]
- Ent. Tidskr. Stockholm.*—Entomologisk Tidskrift. Stockholm. [7885 Nz. I.]
- Ent. Z. Frankfurt a.M.*—Entomologische Zeitschrift. Frankfurt a.M. [7881 Nz. Z.]
- Entomologist, London.*—Entomologist. London. [7887 Nz. Sc.]
- Eos, Madrid.*—Eos. Revista española de Entomología. Madrid. [7894a Nz. E.]
- Ergebn. Biol. Berlin.*—Ergebnisse der Biologie. Berlin. [7940a N.]
- Ergebn. Physiol. München.*—Ergebnisse der Physiologie. München. [7962 Sc. U.]
- Ergebn. Zool. Jena.*—Ergebnisse u. Fortschritte der Zoologie. Jena. [7968 Nz. Sc.]
- Essex Nat.*—Essex Naturalist. Stratford. [8013 N. Sc.]
- Explor. Mers U.R.S.S.*—Explorations des Mers d'U.R.S.S. Service Hydro-Meteorologique d'U.R.S.S. Leningrad. [10284b N.]
- Falco, Halle.*—Falco. Halle. [8201 Nz.]
- Fauna och Flora, Uppsala.*—Fauna och Flora. Uppsala. [8336 N.]
- Faune Colon. franç. Paris.*—Faune des Colonies Françaises. Paris. [8338a Nz.]
- Field & Lab., Dallas.*—Field & Laboratory. Contributions from the Science Departments of Southern Methodist University. Dallas, Texas. [8393a N.]
- Field Mus. Pub. Chicago.*—Publications. Field Museum of Natural History. Zoological series. Geological series. Chicago. [17354 N. Sc.]
- Fish. Bull. New Zealand.*—Fisheries Bulletin. New Zealand Marine Department, Wellington, New Zealand. [8458b Nz.]
- Fish Bull. Sacramento, Cal.*—State of California. Fish and Game Commission. Fish Bulletin. Sacramento, Cal., U.S. [8457a Nz.]
- Fish. Invest. London.*—Fishery Investigations (Ministry of Agriculture and Fisheries). London. [8459b Nz.]
- Fiskerid. Skrift ser. Havunders. Bergen.*—Fiskeridirektoratets Skrifter. Ser. Havundersøkelser. Bergen. [Nz.]
- Flora og Fauna, Kjøbenh.*—Flora og Fauna. Kjøbenhavn. [8483 N.]
- Florida Ent.*—Florida Entomologist. Gainesville. [8491 Nz. I.]

- Flugschr. deuts. Ges. angew. Ent. Berlin.*—Flugschriften der Deutschen Gesellschaft für angewandte Entomologie. Berlin. [8512 Nz. I.]
- Földt. Közlöny, Budapest.*—Földtani-Közlöny (Geologische Mitteilungen). Zeitschrift der Ungar. Geol. Gesellschaft. Budapest. [8541 Ng.]
- Földt. Szemle, Budapest.*—Földtani Szemle. Geológiai és Paleontológiai Folyóirat. Budapest. [8541a Ng.]
- Folia anat. japon.*—Folia Anatomica Japonica. Tokyo. [8542a Nz.]
- Folia ent. hung. Budapest.*—Folia Entomologica Hungarica a Societate Entomologica Hungarica edita. Budapest. [8543d Nz. I.]
- Folia morphol. Warsaw.*—Folia Morphologica. Bulletin de la Société Polonaise d'anatomie et de zoologie. Warszawa. [8547a Nz.]
- Folia zool. hydrobiol. Riga.*—Folia Zoologica et Hydrobiologica. Organ des Systematisch-Zoologischen Instituts und der Hydrobiologischen Station der Lettländischen Universität. Riga. [8551a Nz. I.]
- Forh. k. norske Vidensk. Selsk. Trondhjem.*—See *K. norske Vidensk.*
- Forh. Vidensk. Selsk. Oslo.*—Forhandlinger i Videnskabselskabet i Oslo. [8604 N. U.]
- Fortschr. Geol. Pal. Berlin.*—Fortschritte der Geologie und Palaeontologie. Berlin. [8642b Ng.]
- Fortschr. naturw. Forsch. Berlin.*—Fortschritte der naturwissenschaftlichen Forschung. Berlin-Wien. [8647 N.]
- Fragmenta faun. Mus. zool. Polon.*—Fragmenta faunistica Musei Zoologici Polonici. Warszawa. [8690b Nz. I.]
- Gaea Buenos Aires.*—Gaea: Anales de la Sociedad Argentina de estudios geográficos. Buenos Aires. [8800a N.]
- Geelong Nat.*—Geelong Naturalist. [8984 N.]
- Gegenbaurs morph. Jahrb. Leipzig.*—Gegenbaurs morphologisches Jahrbuch. Leipzig. [8993 Nz. Sc.]
- Geneesk. Tijdschr. Ned.-Ind.*—Geneeskundig tijdschrift voor Nederlandsch-Indie. Batavia. [9002 I.]
- Genetica, 's Gravenhage.*—Genetica. 's Gravenhage. [9022 N. Z.]
- Genetics, Menasha.*—Genetics. Menasha, Wis. [9023 N. Sc.]
- Geogn. Jahresh. Cassel.*—Geognostische Jahreshefte. Cassel. [9035 Ng. G.]
- Geol. Arch. Königsberg.*—Geologisches Archiv. Königsberg. [9070a Ng.]
- Geol. Bull. Peiping.*—Geological Bulletin. Peiping. [Formerly Bulletin of the Geological Survey, Peking.] [9058a Ng.]
- Geol. Fören. Stockh. Förh.*—Geologiska Föreningens i Stockholm Förhandlingar. Stockholm. [9072 Ng. G.]
- Geol. Hung. Ser. Pal.*—Geologica Hungarica. Series Palaeontologica. Budapest. [Formerly Palaeont. Hungarica.] [9057a Ng.]
- Geol. Mag. London.*—Geological Magazine. London. [9060 Ng. Sc.]
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- Geol. paläont. Abh. Berlin.*—Geologische u. paläontologische Abhandlungen. Berlin, Jena. [9069 Ng. Sc.]
- Geol. Rdsch. Leipzig.*—Geologische Rundschau. Leipzig. [9068 Ng. Sc.]
- Geol. Zbl. Leipzig.*—Geologisches Zentralblatt. Leipzig. [9071 Ng. Sc.]
- Gerfaut, Bruxelles.*—Gerfaut. Revue belge d'ornithologie. Bruxelles. [9098 Nz.]
- Glas srpsk. kralj. Akad. Belgrade.*—Glas Srpske Kraljevske Akademije. Beograd (Belgrade). [9205 N. B.]

- Giorn. Geol. Bologna*.—Giornale di Geologia (gia Giornale di Geologia practica).
Annali del R. Museo Geologico di Bologna. [9161a Ng.]
- Giorn. Sci. nat. econ. Palermo*.—Giornale di scienze naturali ed economiche di
Palermo. [9192 N. Sc.]
- Glasg. Nat.*—Glasgow Naturalist. Glasgow. [9209 N. Sc.]
- Glasnik hrv. prirodosl. Dr. Zagreb*.—Glasnik Hrvatskoga prirodoslovnoga Društva.
Zagreb. (Soc. Sci. Nat. Croat.) [9213 N. G.]
- Glasnik Muz. Slov. Ljubljani*.—See *Prirod. Razprave Muz. Društva Ljubljana*.
- Glasnik Zemalj. Muz. Sarajevo*.—Glasnik Zemaljskog Muzeja u Bosni i Hercegovini. Sarajevo. [9214b N. B.]
- Göteborgs VetenskSamh. Handl.*—Göteborgs Kungl. vetenskaps- och vitterhets-samhälles handlingar. Göteborg. [9266 N. B.]
- Half-Year J., Mysore Univ.*—The Half-Yearly Journal of the Mysore University. Bangalore. [9387a N.]
- Handel. ned. ind. natw.-Congr. Buitenzorg*.—Handelingen van het Nederlandsch-Indisch Natuurwetenschappelijk-Congres. Buitenzorg. [9431a N.]
- Hastings Nat.*—Hastings and East Sussex Naturalist. Hastings. [9471 N. B.]
- Helios, Frankfurt O.*—Helios. Organ des Naturwissenschaftlichen Vereins des Regierungsbezirks Frankfurt, Oder. [9534 N. R.]
- Hereditas, Lund*.—Hereditas, genetiskt arkiv. Lund. [9555 N. L.]
- Hilgardia, Berkeley, Cal.*—Hilgardia. A Journal of Agricultural Science published by the California Agricultural Experiment Station, Berkeley, Cal. [9575a Nz.]
- Hist. Berwicksh. Nat. Cl.*—History of the Berwickshire Naturalists' Club. Alnwick. [9582 B. U.]
- Höhlenforschung, Budapest*.—Barlangkutató. (Höhlenforschung.) Budapest. [2400 N. G.]
- Hong-Kong Nat.*—The Hong-Kong Naturalist. A quarterly illustrated Journal principally for Hong-Kong and South China. Hong-Kong. [9643a N.]
- Hoppe-Seyl. Z. Berlin*.—Hoppe-Seyler's Zeitschrift für physiologische Chemie. Berlin. [9650 Sc. U.]
- Horae macrolepidop. Dresden*.—Horae Macrolepidopterologicae regionis palae-arcticae. Dresden. [9651a Nz.]
- Hornero, Buenos Aires*.—El Hornero. Revista de la Sociedad ornitológica de la Plata. Buenos Aires. [9654 Nz.]
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- Ind. med. Res. Mem. Calcutta.*—Indian Medical Research Memoirs. Calcutta. [9945a Nz.]
- Indiana Univ. Stud.*—Indiana University Studies. Bloomington, Indiana. [9965 N.]
- Insect World, Gifu.*—The Insect World. Nawa Entomological Laboratory. Gifu, Japan. (Entirely Japanese.) [10071a I.]
- Insecta matsum. Sapporo.*—Insecta Matsumurana. Sapporo, Japan. [10072a Nz. I.]
- Int. Cong. Zool.*—International Congress of Zoology. Reports. [23998 Nz. Z.]
- Int. ent. Z. Guben.*—Internationale entomologische Zeitschrift. Guben. [10149 Nz. E.]
- Int. Orn. Cong.*—International Ornithological Congress. Reports. [24015 Nz. B.]
- Int. Rev. Hydrobiol. Leipzig.*—Internationale Revue der gesamten Hydrobiologie u. Hydrographie. Leipzig. [10162 N. Sc.]
- Iowa Geol. Surv. Rep.*—Iowa Geological Survey. Annual Report, with accompanying papers. Des Moines. [10216 Ng. Sc.]
- Iris, Dresden.*—See *Deuts. Ent. Z.* "Iris."
- Irish Nat. Journ. Belfast.*—The Irish Naturalists' Journal. Belfast. [10238a N.]
- J. Acad. Nat. Sci. Philad.*—Journal of the Academy of Natural Sciences of Philadelphia. [10949 N. Sc.]
- J. Agric. Res. Washington.*—Journal of Agricultural Research. Washington, D.C. [10965 Nz. Sc.]
- J. Agric. Sci. Cambridge.*—Journal of Agricultural Science. Cambridge. [10966 N. I. Sc.]
- J. Amer. Vet. Med. Ass.*—Journal of the American Veterinary Medical Association. Chicago, Ill. [11022 I. Sc.]
- J. Anat. London.*—Journal of Anatomy. London. [11025 Nz. Sc.]
- J. Animal Ecol.*—The Journal of Animal Ecology. Cambridge. [11027a Nz.]
- J. Asiat. Soc. Beng.*—Journal and Proceedings of the Asiatic Society of Bengal. Calcutta. [11038 N. Sc.]
- J. biol. Board, Canada.*—Journal of the Biological Board of Canada. [6792 Nz.]
- J. biol. Chem. Baltimore.*—Journal of Biological Chemistry. Baltimore. [11063 Sc. S.]
- J. Biol. Moscow.*—Journal de Biologie. Moscow. [N.]
- J. Bombay nat. Hist. Soc.*—Journal of the Bombay Natural History Society. Bombay. [11068 N. B.]
- J. Burma Res. Soc. Rangoon.*—Journal of the Burma Research Society. Rangoon. [11091 N. Sc.]
- J. cell. comp. Physiol. Philad.*—Journal of cellular and comparative Physiology. Philadelphia. [11098b Sc.]
- J. Chosen nat. Hist. Soc. Korea.*—Journal of the Chosen Natural History Society. Chosen, Korea. [11118b N.]
- J. Cincinn. Soc. nat. Hist.*—Journal of the Cincinnati Society of Natural History. Cincinnati. [11120 N. G.]
- J. Coll. Agric. Sapporo.*—Journal of the College of Agriculture, Tôhoku (Hokkaido) Imp. University. Sapporo, Japan. [11126 N. I.]
- J. Coll. Agric. Tokyo.*—Journal of the College of Agriculture, Imp. University of Tokyo. [11127 N. I.]
- J. comp. Neurol. Philadelphia.*—Journal of Comparative Neurology. Philadelphia. [11135 Sc. U.]

- J. comp. Path. Edinb.*—Journal of Comparative Pathology and Therapeutics. Edinburgh and London. [11136 I. S.]
- J. Conch. London.*—Journal of Conchology. London and Leeds. [11138 Nz. B.]
- J. Conchyliol. Paris.*—Journal de conchyliologie. Paris. [11139 Nz. Sc.]
- J. Conseil, Copenhagen.*—Journal du Conseil permanent international pour l'exploration de la mer. Copenhagen. [11139b Nz.]
- J. Council sci. ind. Res. Melbourne.*—Journal of the Council for Scientific and Industrial Research. Commonwealth of Australia. Melbourne. [11140a N. I.]
- J. Cycle bio.-zool. Kier.*—Journal du Cycle Bio-zoologique. Academie des Sciences d'Ukraine. Kyiv (Kiev). [Nz.]
- J. Darjeeling nat. Hist. Soc.*—Journal of the Darjeeling Natural History Society. Darjeeling. [11143a N.]
- J. Derbysh. archaeol. nat. Hist. Soc.*—Journal of the Derbyshire Archaeological and Natural History Society. London and Derby. [11158 N.B.]
- J. E. Afr. Ug. nat. Hist. Soc.*—Journal of the East Africa and Uganda Natural History Society. Nairobi. [11164 N. Z.]
- J. Ecology, London.*—Journal of Ecology. London. [11169 Nb. Sc.]
- J. Econ. Ent. Geneva, N.Y.*—Journal of Economic Entomology. Geneva, N.Y. [11171 Nz. I.]
- J. Elisha Mitchell sci. Soc. Chapel Hill.*—Journal of the Elisha Mitchell Scientific Society. Chapel Hill, N.C. [11179 N. R.]
- J. Ent. Suisse.*—See *Schweiz. ent. Anz.*
- J. Ent. Soc. South Engl.*—See *J. Soc. Brit. Ent.*
- J. Ent. Zool. Claremont, Cal.*—Journal of Entomology and Zoology. Pomona College, Claremont, Cal. [11187 Nz. I.]
- J. exp. Biol. Cambridge.*—Journal of Experimental Biology. Cambridge. [11188 N.]
- J. exp. Med. N.Y.*—Journal of Experimental Medicine. New York. [11189 Sc. U.]
- J. exp. Zool. Philadelphia.*—Journal of Experimental Zoology. Philadelphia. [11191 Nz. Sc.]
- J. F.M.S. Mus. Kuala Lumpur.*—Journal of the Federated Malay States Museums. Kuala Lumpur. [11197 N. Sc.]
- J. Fac. Sci. Hokkaido Univ. Zool. (or Geol.).*—Journal of the Faculty of Science, Hokkaido Imperial University. Zoology (or Geology). [11194c Nz. Ng.]
- J. Fac. Sci. Univ. Tokyo, Zool. (or Geol.).*—Journal of the Faculty of Science, Imperial University of Tokyo. Section iii: Geology. Section iv: Zoology. Tokyo, Japan. [11194d N.]
- J. gen. Physiol. Baltimore.*—Journal of General Physiology. Baltimore. [11210 Sc. U.]
- J. Genet. Cambridge.*—Journal of Genetics. Cambridge. [11211 N. Sc.]
- J. Geol. Chicago.*—Journal of Geology. Chicago. [11216 Ng. G.]
- J. geol. Soc. Tokyo.*—Journal of the Geological Society of Tokyo. [11215 Ng.]
- J. Helminth. London.*—Journal of Helminthology. London. [11224b Nz.]
- J. Hered. Washington.*—Journal of Heredity. Washington, D.C. [11225 Sc. Z.]
- J. Hyg. Cambridge.*—Journal of Hygiene. Cambridge. [11233 Sc. U.]
- J. Imp. Fish. Inst. Tokyo.*—Journal of the Imperial Fisheries Institute. Tokyo. [11200a Nz.]

- J. Ipswich nat. Hist. Soc.*—The Journal of the Ipswich and District Natural History Society. Ipswich. [11274 N.]
- J. Kansas Ent. Soc.*—Journal of the Kansas Entomological Society, Manhattan. [11279b I.]
- J. Linn. Soc. London.*—Journal of the Linnean Society. (Zoology.) London. [11296 N. Sc.]
- J. Malayan Br. Asiat. Soc.*—Journal of the Malayan Branch of the Royal Asiatic Society. Singapore. [11308a N. B.]
- J. Mammal. Baltimore.*—Journal of Mammalogy. Baltimore. [11309 Nz. Z.]
- J. Manchester Geol. Assoc.*—Journal of the Manchester Geological Association. (Printed Arbroath.) [11311a Ng.]
- J. Mar. biol. Ass. Plymouth.*—Journal of the Marine Biological Association of the United Kingdom. Plymouth. [11313 N. Sc.]
- J. Maryland Acad. Sci.*—Journal of the Maryland Academy of Sciences, Baltimore. [11314b N.]
- J. Microbiol. Leningrad.*—Journal de Microbiologie, Leningrad. [13667a Sc.]
- J. Minist. Agric. London.*—Journal of the Ministry of Agriculture. London. [11365 Nz. I.]
- J. Morph. Philadelphia.*—Journal of Morphology. Philadelphia. [11373 Nz. Sc.]
- J. N. China Br. Asiat. Soc.*—Journal of the North China Branch of the R. Asiatic Society. Shanghai. [11401 Z.B.]
- J. N.Y. ent. Soc.*—Journal of the New York Entomological Society. New York. [11396 Nz. E.]
- J. Northants nat. Hist. Soc.*—Journal of the Northants Natural History Society and Field Club. Northampton. [11402 N. B.]
- J. Orn. Leipzig.*—Journal für Ornithologie. Leipzig. [11420 Nz. B.]
- J. Paleont. Menasha, Wis.*—Journal of Paleontology. Menasha, Wis. [11425a Ng.]
- J. Pan-Pacific Res. Inst. Honolulu.*—Journal of the Pan-Pacific Research Institution. Honolulu. [11426a N. I.]
- J. Parasit. Urbana.*—Journal of Parasitology. Urbana, Ill. [11428 N. I.]
- J. Path. Bact. London.*—Journal of Pathology and Bacteriology. London. [11431 U. M.]
- J. Pharmacol. Baltimore.*—Journal of Pharmacology and Experimental Therapeutics. Baltimore. [11442 U. M.]
- J. Physiol. Cambridge.*—Journal of Physiology. London & Cambridge. [11454 Sc. S.]
- J. Physiol. Path. gén. Paris.*—Journal de physiologie et de pathologie générale. Paris. [11453 S. U.]
- J. Psychol. Neurol. Leipzig.*—Journal für Psychologie und Neurologie. Leipzig. [11473 U. M.]
- J. Quekett micr. Cl.*—Journal of the Quekett Microscopical Club. London. [11479 N. Sc.]
- J. R. agric. Soc. London.*—Journal of the R. Agricultural Society. London. [10969 N. Sc.]
- J. R. Instn. Cornwall.*—Journal of the Royal Institution of Cornwall. Truro. [11491 N. Sc.]
- J. R. micr. Soc. London.*—Journal of the R. Microscopical Society. London. [11360 N. Sc.]

- J. Roy. Soc. N.S.W.*—Journal and Proceedings of the Royal Society of New South Wales. Sydney. [11492 N. Sc.]
- J. Roy. Soc. W. Aust.*—Journal of the Royal Society of Western Australia. Perth. [11493 N. B.]
- J. S. E. agr. Coll. Wye.*—Journal of the South-Eastern Agricultural College. Wye, Kent. [11557 Nz. I.]
- J. S.-W. Africa sci. Soc.*—Journal of the South-West Africa Scientific Society. Windhoek. [11556a B.]
- J. Sci. Assoc. Vizianagaram.*—Journal of the Science Association, Maharajah's College. Vizianagaram. [11502b I.]
- J. Sci. Hiroshima Univ. Zool.*—Journal of Science of the Hiroshima University Zoology. Hiroshima, Japan. [10502c Nz.]
- J. sci. Labs. Denison Univ.*—Journal of the Scientific Laboratories of Denison University. Granville, Ohio. [11508a N. Sc.]
- J. Sci. math. phys. nat. Lisboa.*—Jornal de ciencias mathematicas, physicas e naturaes. Lisboa. [10942 N. B.]
- J. Siam Soc.*—Journal of the Siam Society. Bangkok. [11513 N. Z.]
- J. Soc. Brit. Ent.*—Journal. Society of British Entomology. Southampton. [Nz.]
- J. Soc. Preserv. Faun. Empire, London.*—Journal of the Society for the Preservation of the Fauna of the Empire. London. [11546 Nz.]
- J. Soc. trop. Agric. Formosa.*—Journal of the Society of Tropical Agriculture. Taihoku Imperial University, Taiwan (Formosa). [11549a N.]
- J. Tenn. Acad. Sci.*—Journal of the Tennessee Academy of Science. Nashville, Tennessee. [11575c N.]
- J. Torquay nat. Hist. Soc.*—Journal of the Torquay Natural History Society. Torquay. [11581 N. B.]
- J. trop. Med. London.*—Journal of Tropical Medicine and Hygiene. London. [11587 N. I.]
- J. Univ. Bombay.*—Journal of the University of Bombay. [11594b N.]
- J. W. China Border Res. Soc. Chengtu.*—Journal of the West China Border Research Society. Chengtu, Szechwan. [11601b N.]
- J. Wash. Acad. Sci.*—Journal of the Washington Academy of Sciences. Washington, D.C. [11600 N. Sc.]
- Jaarb. Mijnw. Ned.-Oost-Ind.*—Jaarboek van het mijnwezen in Nederlandsch Oost-Indie. Buitenzorg. [10418a N. Sc.]
- Jb. Akad. gemeinnütz. Wiss. Erfurt.*—Jahrbücher der Akademie gemeinnütziger Wissenschaften zu Erfurt. [10453 N.]
- Jb. geol. Bundesanst. Wien.*—Jahrbuch der Geologischen Bundesanstalt. Wien. [10497 Ng. G.]
- Jb. hallesch. Verband.*—Jahrbuch des Halleschen Verbands für die Erforschung der mitteldeutschen Bodenschätze. [10503 N. S.]
- Jb. Martj. Staatsmus. Minussinsk.*—Jahrbuch des Martjanov'schen Staatsmuseums in Minussinsk (Sibirien). [8148 N.]
- Jb. morph. mikr. Anat.*—See under *Gegenbaur's Morph. Jahrb.*; also *Z. Mikrosk.-Anat. Forsch.*
- Jb. nassau. Ver. Naturk.*—Jahrbuch des Nassauischen Vereins für Naturkunde. Wiesbaden. [10540 N. Sc.]
- Jb. preuss. geol. Landesanst.*—Jahrbuch der Preussischen Geologischen Landesanstalt zu Berlin. [10559 Ng. Sc.]

- Jb. St. Gallis. naturw. Ges.*—Jahrbuch der St. Gallischen Naturwissenschaftlichen Gesellschaft. St. Gallen. [10570 N. R.]
- Jamaica Nat.*—Jamaica Naturalist. Kingston, Jamaica. [10877b N.]
- Japan. J. Geol. Geogr.*—Japanese Journal of Geology and Geography. Tokyo. [10881k N.]
- Japan. J. Zool.*—Japanese Journal of Zoology. Published by the National Research Council of Japan, Tokyo. [10881q Nz. I.]
- Jber. Ges. Fr. Natw. Gera.*—Jahresbericht der Gesellschaft von Freunden der Naturwissenschaften in Gera. [10694 N.]
- Jber. naturf. Ges. Graubünden.*—Jahresbericht der Naturforschenden Gesellschaft Graubündens. Chur. [10752 N.]
- Jber. naturh. Ges. Hannover.*—Jahresbericht der Naturhistorischen Gesellschaft in Hannover. [10753 N. G.]
- Jber. niedersächs. geol. Ver. Hannover.*—Jahresbericht des Niedersächsischer Geologischer Vereins. Hannover. [10769 Ng.]
- Jber. oberöster. Musealver. Linz.*—Jahresbericht des Oberösterreichischen Musealvereines. Linz. [10771a N.]
- Jber. oberhein. geol. Ver.*—Jahresbericht u. Mitteilungen des Oberrheinischen Geologischen Vereins. Stuttgart. [10772 Ng. G.]
- Jber. schles. Ges. vaterl. Kult.*—Jahresbericht der Schlesischen Gesellschaft für vaterländische Kultur. Breslau. [10798 N. Sc.]
- Jber. westf. Prov. Ver. Wiss. Kunst. Münster.*—Jahresbericht des Westfälischen Provinzial-Vereins für Wissenschaft und Kunst. Münster i.W. [10847 N.]
- Jena. Z. Naturw.*—Jenaische Zeitschrift für Naturwissenschaft. Jena. [10899 N. Sc.]
- Jh. Ver. vaterl. Naturk. Württemb.*—Jahreshefte des Vereins für Vaterländische Naturkunde in Württemberg. Stuttgart. [10870 N. Sc.]
- Johns Hopkins Univ. Stud. Geol.*—The Johns Hopkins University Studies in Geology. Baltimore. [10921a Ng.]
- K. danske Vidensk. Selsk. Biol. Medd.*—See *Biol. Meddel. Københ.*
- K. danske vidensk. Selsk. Skr.*—Der Kgl. Danske Videnskabernes Selskabs Skrifter. Nat. Math. Afd. København. [11861 N.]
- K. norske vidensk. Selsk. Trondheim.*—Det Kongelige Norske Videnskabernes Selskabs Skr. Forhandl. Trondheim. [11863 N. R.]
- K. svenska VetenskAkad. Handl.*—Kongliga Svenska Vetenskapsakademiens Handlingar. Uppsala & Stockholm. [11870 N. Sc.]
- K. svenska VetenskAkad. Skr. Nat.*—K. Svenska Vetenskapsakademiens Skrifter i Naturskyddsärenden. Stockholm. [11870b N.]
- Kansas Univ. Sci. Bull.*—Kansas University Science Bulletin. Lawrence. [11689 N. I. B.]
- Kentucky Geol. Surv.*—Kentucky Geological Survey. Frankfort. [4382 Ng.]
- Kleintier u. Pelztier, Leipzig.*—Kleintier und Pelztier, Leipzig (continuation of Die Pelztierzucht). [Nz.]
- Knihovna geol. Úst. Praha.*—Knihovna Státního geologického Ústavu Československé Republiky. Praha. [11830a Ng. G.]
- Kócsag, Budapest.*—Kócsag: Quarterly periodical for the study and protection of Birds. Budapest. [11836a Nz.]
- Koleopt. Rdsch. Wien.*—Koleopterologische Rundschau herausg. von der Zool.-Bot. Ges. in Wien. [11845 Nz. I.]
- Konowia, Wien.*—Konowia. Zeitschrift für systematische Insektenkunde. Wien. [11874a Nz. I.]

- Kontyû, Tokyo*.—Kontyû, Tokyo Entomological Society. Tokyo. [1877a Nz. I.]
- Korresp. Naturf. Ver. Riga*.—Korrespondenzblatt des Naturforscher-Vereins zu Riga. [1892 N.]
- Kosmos, Lwów*.—Kosmos. Czasopismo Polskiego Towarzystwa przyrodników imienia Kopernika. Lwów. [1904 N. Sc.]
- L.M.B.C. Mem. L'pool*.—L.M.B.C. Memoirs on Typical British Marine Plants and Animals. Liverpool Marine Biology Committee. Liverpool. [1967 N. Sc.]
- Lambillionea, Bruxelles*.—Lambillionea: Revue mensuelle de l'Union des Entomologistes Belges (formerly Revue mensuelle de la Société Entomol. Namuroise). Bruxelles. [1992a Nz.]
- Lansania, Tokyo*.—Lansania. Journal of Arachnology and Zoology. Tokyo. [1217a Nz.]
- Leidsche geol. Meded. Leiden*.—Leidsche Geologische Mededeelingen. Leiden. [12215b Ng.]
- Leopoldina, Halle*.—Leopoldina. Halle a.S. [12235 N. B.]
- Lepidopterist, Salem*.—Lepidopterist. Salem, Mass. [12237 I.]
- Levende Nat. Amsterdam*.—De Levende natuur. Amsterdam. [12249 N.]
- Lingnan Sci. Journ. Canton*.—Lingnan Science Journal. Lingnan University. Canton. [12286b I.]
- London Nat.*—London Naturalist. London. [12376 N.]
- Lotos, Prag*.—Lotos. Naturwissenschaftliche Zeitschrift hrsg. vom Deutschen Naturwissen.-medizinischen Verein. f. Böhmen "Lotos." Prag. [12388 N. B.]
- Madras Fish. Bull.*—Madras Fisheries Department Bulletin. Madras. [12517 Nz. Sc.]
- Mag. K. földt. Int. Évk. Pest*.—Magyar Királyi Földtani Intézet, A, évkönyve. Pest. [13993 N. B.]
- Mag. Parasit. Leningrad*.—Magazin de Parasitologie. Leningrad. [12528b Nz.]
- Maine Nat.*—Maine Naturalist, Portland, Maine. [12319 N.]
- Manz Mus. Pamphlets*.—Manx Museum Pamphlets. Douglas, I. of Man. [12663a N.]
- Marcellia, Avellino*.—Marcellia. Rivista internazionale di cecidologia. Avellino. [12665 Nz. Z.]
- Märk. Tierw. Berlin*.—Märkische Tierwelt, Berlin. [Nz.]
- Maryland Geol. Surv. (Gen. Ser.)*.—Maryland Geological Survey. (General Series.) Baltimore. [12707 Ng. G.]
- Mat. Comm. Étude Iakoute, Leningrad*.—Matériaux de la Commission pour l'étude de la République Autonome Soviétique Socialiste Iakoute. Leningrad. [12751b N.]
- Math. term. Ért. Budapest*.—Mathematikai és Természettudományi Értesítő. [Math. und Naturw. Anz. der Ungar. Akad. Wiss.] Budapest. [12770 N.]
- Med. geol. Bur. nederland. Mijng gebied Maastricht*.—Mededeeling van het geologisch Bureau voor het Nederlandsch Mijng gebied. Maastricht. [12940a Ng.]
- Med. geol. Dienst, Leiden*.—Mededeelingen van 's Rijks Geologischen Dienst. Leiden. [12963a Ng.]
- Medd. dansk geol. Foren.*—Meddelelser fra Dansk Geologisk Forening. Kjøbenhavn. [12860 Ng. G.]
- Medd. Grønland*.—Meddelelser om Grønland, af Commissionen for Ledelsen af de geologiske og geographiske Undersøgelser i Grønland. Kjøbenhavn. [12862 N. B.]

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- Medd. zool. Mus. Oslo.*—Meddelelser fra det zoologiske Museum. Oslo. [12879a Nz.]
- Mélang. exot.-ent. Moulins.*—Mélanges exotico-entomologiques. Moulins. [13207 Nz.]
- Mem. Acad. Cien. Barcelona.*—Memorias de la Academia de Ciencias y Artes de Barcelona. [13440 N.]
- Mem. Acad. Cien. Madrid.*—Memorias de la Academia de Ciencias exactas, físicas y naturales de Madrid. [13439 N.]
- Mém. Acad. Dijon.*—Mémoires de l'Académie des sciences, arts et belles-lettres de Dijon. [13223 N. Sc.]
- Mem. Acad. Lisboa.*—Memorias da Academia das sciencias de Lisboa. [13441 N. Sc.]
- Mém. Acad. Lyon.*—Mémoires de l'Académie des sciences, belles-lettres et arts de Lyon. [13226 N. Sc.]
- Mém. Acad. Malgache.*—Mémoires de l'Académie Malgache. Tananarive. [13216b N.]
- Mém. Acad. Montpellier.*—Mémoires de l'Académie des sciences et lettres de Montpellier. Sciences, Montpellier. [13229 N. B.]
- Mém. Acad. Sci. Paris.*—Mémoires de l'Académie des sciences de l'Institut de France. Paris. [13231 N. Sc.]
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- Mém. Acad. R. Sci. Lett. Danemark.* See under *K. danske Videns. Selsk. Skr.*
- Mém. Acad. Toulouse.*—Mémoires de l'Académie des sciences, inscriptions et belles lettres de Toulouse. [13230 N. Sc.]
- Mem. Accad. Lincei.*—Atti della R. Accademia dei Lincei. Memorie. Cl. di sci. fis. mat. e nat. Roma. [2114 N. Sc.]
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- Mem. Amer. Acad. Arts Sci. Boston.*—Memoirs of the American Academy of Arts and Sciences. Boston. [13346 N. Sc.]
- Mem. Amer. ent. Soc. Philad.*—Memoirs of the American Entomological Society. Philadelphia. [13349 Nz.]
- Mem. Amer. Mus. nat. Hist.*—Memoirs of the American Museum of Natural History. New York. [13350 N. Sc.]
- Mem. Asiat. Soc. Beng.*—Memoirs of the Asiatic Society of Bengal. Calcutta. [13351 N. B.]
- Mem. Aust. Mus. Sydney.*—Memoirs of the Australian Museum. Sydney. [13353 N. Sc.]
- Mem. Boston Soc. nat. Hist.*—Memoirs of the Boston Society of Natural History. Boston. [13356 N. Sc.]
- Mem. Carnegie Mus. Pittsburgh.*—Memoirs of the Carnegie Museum. Pittsburgh, Pa. [13362 N. Sc.]
- Mem. Carta geol. Ital.*—Memorie descrittive della carta geologica d'Italia. Firenze, Roma. [13502 Ng. G.]

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- Mem. Com. Invest. paleont. Madrid.*—Memorias de la Comisión de investigaciones paleontológicas y prehistóricas. (Instituto nacional de ciencias físico-naturales.) Madrid. [13445 Ng. B.]
- Mem. Com. talassogr. ital.*—Memorie. R. Comitato talassografico italiano. Venezia. [13500 N. Sc.]
- Mem. Conn. Acad. Arts Sci.*—Memoirs of the Connecticut Academy of Arts and Sciences. New Haven. [13369 N. B.]
- Mem. Dept. Zool. Punjab Univ.*—Memoirs of the Department of Zoology. Punjab University, Lahore. [13381 Nz.]
- Mem. Fac. Sci. Taihoku Imp. Univ. Formosa.*—Memoirs of the Faculty of Science and Agriculture. Taihoku Imperial University. Formosa. [13382 N.]
- Mem. Mus. zool. Univ. Coimbra.*—Memorias e Estudos do Museu Zoológico da Universidade de Coimbra. [13476 Nz. I.]
- Mem. geol. Surv. Can.*—Memoirs of the Geological Survey Branch, Dept. of Mines. Canada. Ottawa. [13385 Ng. Sc.]
- Mem. geol. Surv. China.*—Memoirs of the Geological Survey of China. Peking. [13386 Ng. G.]
- Mem. geol. Surv. Ind.*—Memoirs of the Geological Survey of India. Calcutta. [13387 Ng. G.]
- Mem. geol. Surv. N.S.W.*—Memoirs of the Geological Survey of New South Wales. (c) Palaeontology. Sydney. [13390 Ng. G.]
- Mem. geol. Surv. S. Afr.*—Memoirs of the Geological Survey. Union of South Africa. Pretoria. [13394 Ng. G.]
- Mem. geol. Surv. U.K.*—Memoirs of the Geological Survey of the United Kingdom. London. [13395 Ng. G.]
- Mem. geol. Surv. Vict.*—Memoirs of the Geological Survey of Victoria. Melbourne. [13396 Ng. G.]
- Mem. Ind. Mus. Calcutta.*—Memoirs of the Indian Museum. Calcutta. [13401 Nz. Sc.]
- Mem. Inst. Butantan, S. Paulo.*—Memorias do Instituto de Butantan. São Paulo. [13461 N.]
- Mém. Inst. Égypt.*—Mémoires de l'Institut d'Égypte. Le Caire. [13247 N. Sc.]
- Mem. Inst. espan. Oceanogr. Madrid.*—Memorias del Instituto Español de Oceanografía. Madrid. [13461a N.]
- Mém. Inst. géol. Univ. Louvain.*—Mémoires de l'Institut géologique de l'Université de Louvain. [13249 Ng. G.]
- Mém. Inst. nat. genev.*—Mémoires de l'Institut national genevois. Genève. [13250 N. Sc.]
- Mem. Inst. Osw. Cruz, Rio de J.*—Memorias do Instituto Oswaldo-Cruz. Rio de Janeiro. [13465 N. I.]
- Mem. Ist. geol. Univ. Padova.*—Memorie dell' Istituto geologico della R. Università di Padova. [13505 Ng. G.]
- Mem. Ist. lombardo, Milano.*—Memorie dell' Istituto lombardo di scienze e lettere. Cl. di scienze matematiche e naturali. Milano. [13506 N. Sc.]
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- Pap. geol. Dept. Glasgow Univ.*—Papers from the Geological Dept. of the Glasgow University. [16000 Ng. G.]
- Pap. Hamps. F. Cl.*—Papers and Proceedings of the Hampshire Field Club. Southampton. [16001 N. U.]
- Pap. Mich. Acad. Sci.*—Papers from the Michigan Academy of Science. Lansing. [16003 N. I.]
- Pap. roy. Soc. Tasm.*—Papers and Proceedings of the Royal Society of Tasmania. Hobart. [16010 N. Sc.]
- Pap. Tortugas Lab. Carn. Instn.*—Papers from the Tortugas Laboratory of the Carnegie Institution of Washington. (Publications of the Carnegie Inst.) Washington. [16014 Nz. Sc.]
- Parasitology, Cambridge*.—*Parasitology*. Cambridge. [16035 Nz. Sc.]
- Parnassiana, Berlin*.—*Parnassiana*. Berlin. [16044a Nz. E.]
- Peking nat. Hist. Bull.*—*Peking Natural History Bulletin*. [16087b N.]
- Pfluegers Arch. Berlin*.—*Pfluegers Archiv für die gesamte Physiologie d. Menschen. u.d. Tiere*. Berlin. [16155 S. U.]
- Philipp. J. Sci. Manila*.—*Philippine Journal of Science*. Manila. [16189 N. Sc.]
- Philos. Trans. London*.—*Philosophical Transactions of the Royal Society*. London. [16192 N. Sc.]
- Physiol. Zool. Chicago*.—*Physiological Zoölogy*. A Quarterly Journal of Zoölogical Research. Chicago, Ill. [16264a I. Z.]
- Physis B. Aires*.—*Physis*. Revista de la Sociedad argentina de ciencias naturales. Buenos Aires. [16270 N. I.]
- Polsk. Pismo Ent. Lwów*. See *Bull. ent. Pologne*.
- Prace Monogr. Kom. fizjog. Krakow*.—*Prace Monograficzne Komisji Fizjograficznej*. Krakowie. [16443b N.]
- Prace Morav. Prirod vide Acta Soc. Sci. Nat.*

Prace zool. polsk. Panst. Muz. vide Ann. zool. Mus. polon.

Prak. Akad. Athens.—Πρακτικά τῆς Ἀκαδημίας Ἀθηνῶν. [16478a N.]

Préc. Peterborough nat. Hist. Soc.—Précis of the Annual Report of the Peterborough Natural History, Scientific and Archaeological Society. Peterborough. [16527 N. B.]

Prirod. Razpr. Muz. Društva Ljubljana.—Prirodslovne Razprave Muzejskega Društva. Ljubljana. [Replaces Glasnik Muz. etc.] [16582a N.]

Proc. Acad. nat. Sci. Philad.—Proceedings of the Academy of Natural Sciences of Philadelphia. [16590 N. Sc.]

Proc. Acadian Ent. Soc.—Proceedings of the Acadian Entomological Society. Truro, N.S. [16592a Nz. I.]

Proc. Amer. Acad. Sci. Boston.—Proceedings of the American Academy of Arts and Sciences. Boston. [16599 N. Sc.]

Proc. Amer. Ass. Adv. Sci.—Proceedings of the American Association for the Advancement of Science. Philadelphia. [16600 N. Sc.]

Proc. Amer. Phil. Soc. Philad.—Proceedings of the American Philosophical Society. Philadelphia. [16623 N. Sc.]

Proc. Ashmol. nat. Hist. Soc. Oxford.—Proceedings and Report. Ashmolean Natural History Society of Oxfordshire. [16646 N. Sc.]

Proc. Belfast Nat. Field-Club.—Proceedings and Annual Report. Belfast Naturalists' Field Club. Belfast. [16664a N.]

Proc. biol. Soc. Washington.—Proceedings of the Biological Society of Washington. [16666 N. U.]

Proc. Birmingham nat. Hist. Soc.—Proceedings of the Birmingham Natural History and Philosophical Society. Birmingham. [16669 N. B.]

Proc. Boston Soc. nat. Hist.—Proceedings of the Boston Society of Natural History. Boston. [16672 N. Sc.]

Proc. Bournemouth nat. Sci. Soc.—Proceedings of the Bournemouth Natural Science Society. [16673 N. B.]

Proc. Bristol Nat. Soc. See under *Rep. Bristol Nat. Soc.*

Proc. Calif. Acad. Sci.—Proceedings of the California Academy of Sciences. San Francisco. [16680 N. Sc.]

Proc. Coll. Field Cl. nat. Hist. Soc. Exeter.—Proceedings of the College Field Club and Natural History Society. University College of the South-West of England. Exeter. [16700a N.]

Proc. Colo. Mus. Denver.—Proceedings of the Colorado Museum of Natural History. Denver. [16701a N.]

Proc. Cotteswold Nat. Gloucester.—Proceedings of the Cotteswold Naturalists' Field Club. Gloucester. [16711 N. B.]

Proc. Coventry nat. Hist. Soc.—Proceedings of the Coventry Natural History and Scientific Society. Coventry. [16712a N.]

Proc. Croydon nat. Hist. sci. Soc.—Proceedings and Transactions of the Croydon Natural History and Scientific Society. Croydon. [16713 N. U.]

Proc. Davenport Acad. Sci.—Proceedings of the Davenport Academy of Sciences. Davenport, Iowa. [16715 N. B.]

Proc. Dorset nat. Hist. F. Cl.—Proceedings of the Dorset Natural History and Antiquarian Field Club. Dorchester. [16719 N. B.]

Proc. ent. Soc. B.C.—Proceedings of the Entomological Society of British Columbia. Victoria. [16730 Nz. I.]

- Proc. ent. Soc. London.*—Proceedings of the Royal Entomological Society of London. [16730a Nz.]
- Proc. ent. Soc. Washington.*—Proceedings of the Entomological Society of Washington. [16732 Nz. I.]
- Proc. Geol. Ass. London.*—Proceedings of the Geologists' Association. London. [16741 Ng. Sc.]
- Proc. Hawaii. ent. Soc.*—Proceedings of the Hawaiian Entomological Society. Honolulu. [16745 Nz. I.]
- Proc. helminth. Soc. Washington.*—Proceedings of the Helminthological Society of Washington. [Nz.]
- Proc. Holmesdale Nat. Hist. Cl. Reigate.*—Proceedings of the Holmesdale Natural History Club. Reigate. [16748 N. B.]
- Proc. I. of Man nat. Hist. Soc.*—The Isle of Man Natural History and Antiquarian Society. Proceedings. Douglas, I.o.M. [16784 N.]
- Proc. I. of Wight nat. Hist. Soc. Newport.*—Proceedings of the Isle of Wight Natural History Society, Newport, I.W. [16784a N.]
- Proc. Imp. Acad. Tokyo.*—Proceedings of the Imperial Academy. Tokyo. [16750 N.]
- Proc. Indian Acad. Sci.*—Proceedings of the Indian Academy of Sciences. Bangalore. [N.]
- Proc. Indiana Acad. Sci.*—Proceedings of the Indiana Academy of Science. Brookville. [16756 N. L.]
- Proc. Iowa Acad. Sci.*—Proceedings of the Iowa Academy of Science. Des Moines. [16780 N. U.]
- Proc. Jr. Soc. nat. Sci. Cincinnati.*—Proceedings of the Junior Society of Natural Sciences. Cincinnati. [16784d N.]
- Proc. K. Akad. Wet. Amsterdam.*—Proceedings. K. Akademio van Wetens. Amsterdam. [16592 N. Sc.]
- Proc. Kuling sci. Assoc.*—Proceedings of the Kuling scientific Association. Kuling, Kiangsi, China. [16785b N.]
- Proc. Lahore Phil. Soc.*—Proceedings of the Lahore Philosophical Society. Lahore. [16787 N. B.]
- Proc. Leeds phil. Lit. Soc.*—Proceedings of the Leeds Philosophical and Literary Society, Scientific Section, Leeds. [16789a N.]
- Proc. Linn. Soc. London.*—Proceedings of the Linnean Society. London. [16790 N. Sc.]
- Proc. Linn. Soc. N.S.W.*—Proceedings of the Linnean Society of New South Wales. Sydney. [16790a N. B.]
- Proc. lit. phil. Soc. Lpool.*—Proceedings of the Literary and Philosophical Society of Liverpool. [16791 N. Sc.]
- Proc. Llandudno Field Cl.*—Proceedings of the Llandudno, Colwyn Bay and district Field Club. Llandudno. [16794a N.]
- Proc. Lpool. biol. Soc.*—Proceedings and Transactions of the Liverpool Biological Society. Liverpool. [16792 N. Sc.]
- Proc. Lpool. geol. Soc.*—Proceedings of the Liverpool Geological Society. Liverpool. [16793 Ng. G.]
- Proc. Lpool. Nat. F. Cl.*—Proceedings of the Liverpool Naturalists' Field Club. Liverpool. [16794 N. B.]
- Proc. malacol. Soc. London.*—Proceedings of the Malacological Society of London. [16798 Nz. Sc.]

- Proc. N.S. Inst. Sci. Halifax.*—Proceedings and Transactions of the Nova Scotian Institute of Science. Halifax, N.S. [16862 N. B.]
- Proc. Nat. Acad. Sci. Washington.*—Proceedings of the National Academy of Sciences. Washington, D.C. [16820 N. S.]
- Proc. nat. Hist. Soc. Fukien Univ.*—Proceedings of the Natural History Society of the Fukien Christian University. Foochow, China. [16839b N.]
- Proc. New Engl. Zool. Cl.*—Proceedings of the New England Zoölogical Club. Cambridge, Mass. [16845 Nz.]
- Proc. Ohio Acad. Sci.*—Proceedings of the Ohio State Academy of Sciences. Columbus. [16863 N.]
- Proc. Okla. Acad. Sci.*—Proceedings of the Oklahoma Academy of Science. Norman. [16869a N. Sc.]
- Proc. Penn. Acad. Sci.*—Proceedings of the Pennsylvania Academy of Science. Harrisburg, Pa. [16882a N. I.]
- Proc. phil. Soc. Glasgow.*—Proceedings of the R. Philosophical Society of Glasgow. [16887 N. Sc.]
- Proc. phys. Soc. Edinb.*—Proceedings of the R. Physical Society of Edinburgh. [16888 N. Sc.]
- Proc. Portland Soc. nat. Hist.*—Proceedings of the Portland Society of Natural History. Portland, Me., U.S.A. [16891a N. R.]
- Proc. R. Irish Acad.*—Proceedings of the Royal Irish Academy. Dublin. [16783 N. Sc.]
- Proc. Rhod. Sci. Ass.*—Proceedings of the Rhodesia Scientific Association. Bulawayo. [16895 N. Sc.]
- Proc. Rochester Acad. Sci.*—Proceedings of the Rochester Academy of Science. Rochester, N.Y. [16897 N. Sc.]
- Proc. roy. Soc. Edinb.*—Proceedings of the Royal Society of Edinburgh. [16902 N. Sc.]
- Proc. roy. Soc. London.*—Proceedings of the Royal Society. London. [16900 N. Sc.]
- Proc. roy. Soc. Queensl.*—Proceedings of the Royal Society of Queensland, Brisbane. [16903 N. I.]
- Proc. roy. Soc. Vict.*—Proceedings of the Royal Society of Victoria. Melbourne. [16904 N. Sc.]
- Proc. Soc. exp. Biol.*—Proceedings of the Society of Experimental Biology and Medicine. New York. [16913 N. U.]
- Proc. Somersetsh. archaeol. nat. Hist. Soc.*—Proceedings of the Somersetshire Archaeological and Natural History Society. Taunton. [16921 N. B.]
- Proc. Sorby sci. Soc. Sheffield.*—Proceedings of the Sorby Scientific Society. Sheffield. (Printed Kendal.) [16922a N.]
- Proc. speleol. Soc. Bristol.*—Proceedings of the Speleological Society. Bristol. [16931 Ng. B.]
- Proc. Suffolk Inst. Archaeol. nat. Hist.*—Proceedings of the Suffolk Institute of Archaeology and Natural History. Ipswich. [16936 N. B.]
- Proc. Swansea sci. Field Nat. Soc.*—Proceedings of the Swansea Scientific and Field Naturalists' Society. Swansea. [16936a N.]
- Proc. U.S. nat. Mus.*—Proceedings of the United States National Museum. Washington. [16944 N. Sc.]
- Proc. Univ. Durham phil. Soc.*—Proceedings of the University of Durham Philosophical Society. Durham. [16946 N. Sc.]

- Proc. Utah Acad. Sci.*—Proceedings of the Utah Academy of Sciences. Provo. [16947a N.]
- Proc. Yorks. geol. polyt. Soc. Leeds.*—Proceedings of the Yorkshire Geological and Polytechnic Society. Leeds. [16969 Ng. G.]
- Proc. zool. Soc. London.*—Proceedings of the General Meetings for Scientific Business of the Zoological Society of London. [16737 N. Sc.]
- Proc.-verb. Soc. linn. Bordeaux.*—Procès-verbaux de la Société linnéenne de Bordeaux. [16996 N. Z.]
- Proc.-verb. Soc. Sci. phys. nat. Bordeaux.*—Procès-verbaux des séances de la Société des sciences physiques et naturelles de Bordeaux. [16991 N. L.]
- Proc.-verb. Soc. tosc. Sci. Nat.*—Processi-Verbali della Società Toscana di Scienze Naturali residenti i Pisa. [16977 N. B.]
- Prof. Pap. U.S. geol. Surv.*—Professional Papers. (U.S. Geological Survey.) Washington. [17016 Ng. G.]
- Progr. Activ. Chicago Acad. Sci.*—Program of Activities of the Chicago Academy of Sciences. Chicago. [N.]
- Protoplasma. Leipzig.*—Protoplasma: Internationale Zeitschrift für Physikalische Chemie des Protoplasten. Leipzig. [17191a N.]
- Protozoology. London.*—Protozoology: a supplement to the Journal of Helminthology. London. [17191b Nz.]
- Psyche. Boston.*—Psyche, a Journal of Entomology. Boston, Mass. [17229 Nz. I.]
- Pub. Amer. Assoc. Mus. Washington.*—Publications of the American Association of Museums. Washington, D.C. [17325a N.]
- Pub. Carnegie Instn. Washington.*—Publications. Carnegie Institution of Washington. Washington. [17340 N. B.]
- Pub. Dir. Minas Geol. Buenos Aires.*—República Argentina. Ministerio de Agricultura de la Nación. Dirección General de Minas, Geología e Hidrología. Publicación. Buenos Aires. [17309b Ng.]
- Pub. Fac. Med. Univ. Masaryk, Brno.*—Publications de la faculté de Médecine de l'Université Masaryk, Brno. Czechoslovakia. [20487b N.]
- Pub. Fac. Sci. Univ. Masaryk, Brno.*—Publications de la faculté des sciences de l'Université Masaryk, Brno. Czecho-Slovakia. [20488b N.]
- Pub. Field Mus. Chicago.* See under *Field Mus. Pub.*
- Pub. Fond. V. Adamachi, Bucuresti.*—Publicațiunile Fondului Vasilie Adamachi. Academia Română. București. [17434 N. B.]
- Pub. geol. Inst. Tartu.*—Geoloogია-Instituudi Toimetused. Publications of the Geological Institution. Tartu. (Dorpat, Esthonia.) [20911b Ng.]
- Pub. geol. Surv. Queensl.*—Publications of the Geological Survey of Queensland. Brisbane. [17356 Ng. G.]
- Pub. Junta Cièn. nat.* See under *Treb. Mus. Cièn. nat.*
- Pub. Los Angeles Mus.*—Los Angeles Museum. Publications. Los Angeles, California. [17376a N.]
- Pub. Mus. nat. Hist. nat. Paris.*—Publications du Muséum National d'Histoire Naturelle. Paris. [17381b N.]
- Pub. Mus. Hoang ho Pai ho, Tien Tsin.*—Publications du Musée Hoang ho Pai ho. Tien Tsin, China. [17381 N.]
- Pub. Puget Sd. Mar. biol. Sta.*—Publications of the Puget Sound Marine Biological Station of the University of Washington. Seattle, Wash. [17392 N.]
- Pub. Sta. Reg. Mus. Penza.*—Publications. State Regional Museum. Penza, U.S.R.R. [16100b N.]

- Pub. Univ. Oklahoma biol. Surv.*—Publications of the University of Oklahoma Biol. Surv. Norman, Okl. [17422b N.]
- Pub. Univ. zool. Mus. København.*—Publikationer fra Universitetets Zoologiske Museum. [Chiefly reprints from other Journals.] København. [17457b Nz.]
- Pub. Wagner Inst. Sci. Philad.*—Publications of the Wagner Free Institute of Science. Philadelphia. [17425b N.]
- Pubb. Ist. Firenze.*—Pubblicazioni dell' Istituto di studi superiori pratici e i perfezionamento in Firenze. Sezione di scienze fisiche e naturali. Firenze. [17267 N. B.]
- Pubb. Univ. Stud. Firenze.*—Pubblicazioni della R. Università degli studi i Firenze. Sezione di scienze matematiche fisiche e naturali. Firenze. [17287a N.]
- Pubb. Staz. zool. Napoli.*—Pubblicazioni della Stazione zoologica di Napoli. Rome and Berlin. [17286 Nz. Sc.]
- Quart. J. exp. Physiol. London.*—Quarterly Journal of Experimental Physiology. London. [17502 S. U.]
- Quart. J. geol. Soc. London.*—Quarterly Journal of the Geological Society of London. [17504 Ng. G.]
- Quart. J. micr. Sci. London.*—Quarterly Journal of Microscopical Science. London. [17510 N. Sc.]
- Quart. Rev. Biol. Baltimore.*—Quarterly Review of Biology. Baltimore. [17528b N.]
- Queensl. Nat. Brisbane.*—Queensland Naturalist. Brisbane. [17539 N. Sc.]
- Rad jug. Akad. Znan. Umj. Zagreb.*—Rad Jugoslavenske Akademije Znanosti i Umjetnosti. Zagreb. [17552a N. B.]
- Rameau de Sapin, Neuchâtel.*—Le Rameau de Sapin, Neuchâtel. [17621 N.]
- Rapp. Comm. Explor. Méditerranée, Paris.*—Rapports et procès-verbaux des réunions de la Commission internationale pour l'exploration scientifique de la Mer Méditerranée. Paris. [17640a Nz.]
- Rapp. Cons. Explor. Mer. Copenh.*—Rapport et procès-verbaux des réunions. (Conseil permanent international pour l'exploration de la Mer.) Copenhague. [17646 Nz. Sc.]
- Rapp. Sta. biol. St. Laurent, Quebec.*—Station biologique du St. Laurent à Trois-Pistoles. Rapport Annuel. Quebec (Univ. Laval). [17631 N.]
- Rasseg. faunist. Roma.*—Rassegna Faunistica, Roma.
- Ray Soc. Pub.*—Ray Society Publications. London. [17713 Nz. Sc.]
- Rec. Albany Mus. Grahamstown.*—Records of the Albany Museum. Grahamstown. [17734 N. L.]
- Rec. Auckland Inst. Mus.*—Records of the Auckland Institute and Museum. Auckland, N.Z. [17735a N.]
- Rec. Aust. Mus. Sydney.*—Records of the Australian Museum. Sydney. [17736 N. S.]
- Rec. Bare Facts, Shrewsbury.*—Record of Bare Facts. Caradoc and Severn Valley Field Club. Shrewsbury. [17724 N. B.]
- Rec. Canterbury (N.Z.) Mus.*—Records of the Canterbury Museum. Christchurch, N.Z. [17738 N. Sc.]
- Rec. geol. Comm. Russian Far East, Vladivostock.*—Records of the Geological Committee of the Russian Far East. Vladivostock. [17739a Ng.]
- Rec. Geol. min. Res. East-Siberia.*—Records of the Geology and Mineral Resources of East-Siberia. Irkutsk. [12744a Ng.]

- Rec. geol. Surv. Ind.*—Records of the Geological Survey of India. Calcutta. [17741 Ng. G.]
- Rec. Ind. Mus. Calcutta.*—Records of the Indian Museum. Calcutta. [17746 Nz. I.]
- Rec. Inst. zool. Torley-Rousseau, Bruxelles.*—Recueil de l'Institut zoologique Torley-Rousseau, Bruxelles. [17758a Nz.]
- Rec. oceanogr. Works Japan.*—Records of Oceanographic Works in Japan. Tokyo. [17748a N.]
- Rec. S. Aust. Mus. Adelaide.*—Records of the South Australian Museum. Adelaide. [17750a N. I.]
- Rec. Trav. Univ. Irkoutsk.*—Recueil de Travaux de l'Université d'État à Irkoutsk. [19764a N.]
- Rec. W. Aust. Mus. Perth.*—Records of the Western Australian Museum. Perth. [17752 N. B.]
- Redia, Firenze.*—Redia, Giornale di entomologia. Firenze. [17783 Nz. I.]
- Rend. Acc. Bologna.*—Rendiconti delle sessioni della R. Accademia delle scienze dell' Istituto di Bologna. [17841 N. B.]
- Rend. Acc. Lincei.*—Atti della R. Accademia dei Lincei. Rendiconti. Cl. di sci. fis. mat. e nat. Roma. [2115 N. Sc.]
- Rend. Acc. Napoli.*—Rendiconti della R. Accademia delle scienze fisiche e matematiche. Napoli. [17833 N. B.]
- Rend. Acc. Zelanti, Acireale.*—Rendiconti e memorie della R. Accademia di scienze, lettere ed arti degli Zelanti. Acireale. [17833a N. B.]
- Rend. Ist. lombardo.*—Rendiconti dell' Istituto lombardo di scienze e lettere. Milano. [17838 N. B.]
- Rep. Barrow Nat. Fld. Cl.*—Annual Report and Proceedings of the Barrow Naturalists' Field Club. Barrow. [17938a N. B.]
- Rep. Birmingham nat. Hist. phil. Soc.*—Annual Report. Birmingham Natural History and Philosophical Society. Birmingham. [17945a N. B.]
- Rep. Bristol Nat. Soc.*—Annual Report and Proceedings of the Bristol Naturalists' Society. Bristol. [17976 N. B.]
- Rep. Brit. Assoc. Adv. Sci. London.*—British Association for the Advancement of Science. Report. London. [17977 N.]
- Rep. Cambridge Bd. Cl.*—Report of the Cambridge Bird Club. Cambridge. [17995c Nz.]
- Rep. Cheltenham Coll. nat. Hist. Soc.*—Cheltenham College Natural History Society. Report. [N.]
- Rep. Chester Soc. nat. Sci.*—Annual Report and Proceedings of the Chester Society of Natural Science, Literature and Art. Chester. [18024c N. U.]
- Rep. Christ's Hosp. (W. Horsham) nat. Hist. Soc.*—Report of the Christ's Hospital (West Horsham) Natural History Society. Horsham. [18034 N.]
- Rep. Clifton Coll. sci. Soc.*—Report of the Clifton College Scientific Society. Clifton. [18037 N.]
- Rep. Cornwall polyt. Soc.*—Annual Report of the R. Cornwall Polytechnic Society. Falmouth. [18065d N. B.]
- Rep. Danish biol. Sta.*—Report of the Danish Biological Station to the Board of Agriculture. Copenhagen. [18072 N. Sc.]
- Rep. Dept. Agr. Formosa.*—Reports. Department of Agriculture. Government Research Institute, Formosa. [Nz.]
- Rep. Devon. Ass. Adv. Sci.*—Report and Transactions of the Devonshire Association for the Advancement of Science. Plymouth. [18117 N. B.]

- Rep. Dove Mar. Lab. Cullercoats.*—Report of the Dove Marine Laboratory, Cullercoats, Northumberland. Newcastle-upon-Tyne. [18124 Nz. Sc.]
- Rep. Ent. Soc. Ont.*—Annual Report of the Entomological Society of Ontario. [18137b Nz. I.]
- Rep. Eton Coll. nat. Hist. Soc.*—Annual Report. Eton College Natural History Society. Eton, Bucks. [18145a N.]
- Rep. Felsted Sch. sci. Soc.*—Report of the Felsted School Scientific Society. Felsted, Essex. [18156 N. I.]
- Rep. Fish. Bd. Scot.*—Annual Report of the Fishery Board for Scotland. Edinburgh. [18164a Nz. Sc.]
- Rep. Fish Game, California.*—Report. Fish and Game Commission. Sacramento, California. [Nz.]
- Rep. Fish. Mar. biol. Surv. Pretoria.*—Report. Fisheries and Marine Biological Survey. Union of South Africa. Pretoria. [18163b Nz.]
- Rep. Florida geol. Surv.*—Annual Report of the Florida State Geological Survey, Tallahassee. [18166a Ng. Sc.]
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- Rep. Gresham's Sch. N.H. Soc. Holt.*—The Annual Report of the Gresham's School Natural History Society. Holt, Norfolk. [18215c N.]
- Rep. Guernsey Soc. Nat. Sci.*—Report and Transactions. La Société Guernésiaise. Guernsey. [18589a N.]
- Rep. Herts. nat. Hist. Soc.*—Annual Report and Proceedings of the Hertfordshire Natural History Society and Field Club. Watford. [21503 N.B.]
- Rep. Lab. Mus. Zool. Soc. Philadelphia.*—Report of the Laboratory and Museum of Comparative Pathology of the Zoological Society of Philadelphia. [18283a Nz.]
- Rep. lim. Sta. Lake Sevan. Erivan.*—Reports of the limnological Station Lake Sevan. Elenovka (Erivan). Armenia. [Nz.]
- Rep. Manchr. micr. Soc.*—Annual Report and Transactions of the Manchester Microscopical Society. Manchester. [18318c N. B.]
- Rep. Mar. biol. Sta. Port Erin.*—The Marine Biological Station at Port Erin. (Isle of Man.) Annual Rep. Liverpool. [Nz.]
- Rep. Marlboro' Coll. nat. Hist. Soc.*—Report of the Marlborough College Natural History Society. Marlborough. [18326 N. G.]
- Rep. Notts. Nat. Soc.*—Annual Report of the Nottingham Naturalists' Society. Nottingham. [18456a N.]
- Rep. Peterboro' Nat. Hist. Soc.* See under *Précis Peterborough.*
- Rep. Plymouth Inst.*—Annual Report and Transactions of the Plymouth Institution and Devon and Cornwall Natural History Society. Plymouth. [18494a N. B.]
- Rep. Reading lit. sci. Soc.*—Report and Proceedings. Reading Literary and Scientific Society. Reading. [18554 N. B.]
- Rep. Rugby Sch. nat. Hist. Soc.*—Report of the Rugby School Natural History Society. Rugby. [18563 N. Sc.]
- Rep. Sci. Sta. Fish. of Asov and Black Sea.*—Reports of the Scientific Station for Fisheries of Asov and Black Sea. Rostov-on-Ron. U.S.S.R. [21806d Nz.]
- Rep. Smithson. Instn.*—Annual Report of the Board of Regents of the Smithsonian Institution. Washington, D.C. [17957a N. Sc.]
- Rep. Southport Sci. Soc.*—Report of the Southport Scientific Society. Southport. [18604 N. B.]

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- Rep. U.S. Com. Fish. Washington.*—Bureau of Fisheries. Report of the United States Commissioner of Fisheries. Washington, D.C. [18630b Nz.]
- Rep. United Fruit Med. Dep. New York.*—Report of the United Fruit Company. Medical Department. New York. [18629c Nz.]
- Rep. Wellington Coll. nat. Sci. Soc.*—Annual Report of the Wellington College Natural Science Society. Wellington College, Berks. [18653a N1 Sc.]
- Rep. Whitby lit. phil. Soc.*—Report of the Whitby Literary and Philosophical Society. Whitby. [18657 N. G.]
- Rep. Winchester Coll. N.H. Soc.*—Report of the Winchester College Natural History Society. [18658 N.]
- Rep. Yorks. phil. Soc.*—Annual Report of the Yorkshire Philosophical Society. York. [18670d N. B.]
- Rés. Camp. sci. Monaco.*—Résultats des campagnes scientifiques accomplies par le Prince Albert I. Monaco. [18713 N. I.]
- Res. Stud. State Coll. Washington.*—Research Studies of the State College of Washington. Pullman, Washington State. [18694a N.]
- Reseñ. ciént. Soc. esp. Hist. nat.*—Reseñas científicas. Sociedad Española de Historia Natural. Madrid. [18696a N.]
- Rev. Acad. Madrid.*—Revista de la Academia de ciencias exactas, físicas y naturales de Madrid. [18775 N. G.]
- Rev. appl. Ent. London.*—Review of Applied Entomology. (a) Agricultural. (b) Medical and Veterinary. London. [18760a Nz. Sc.]
- Rev. Biol. forest. Limnol. Madrid.*—Revista de Biología forestal y limnología. Madrid. [18800b Nz.]
- Rev. Biol. Hyg., S. Paulo.*—Revista de Biologia e Hygiene. São Paulo. [18800a N. I.]
- Rev. chil. Hist. nat.*—Revista chilena de historia natural. Santiago de Chile. [18807 N. I.]
- Rev. Col. Rocafuerte, Guayaquil.*—Revista del Colegio Nacional Vicente Rocafuerte. Guayaquil. [18821a N. I.]
- Rev. Ent. Caen.*—Revue d'entomologie. Caen. [19058 Nz. B.]
- Rev. Ent. São Paulo.*—Revista de Entomologia. São Paulo. [18832a Nz.]
- Rev. Ent. U.R.S.S.*—Revue d'Entomologie de l'U.R.S.S. Leningrad. [19580a Nz. I.]
- Rev. esp. Biol. Madrid.*—Revista española de Biología (continuación del Bol. Soc. esp. Biol.). Madrid. [18833a N.]
- Rev. franç. Entom. Paris.*—Revue Française d'Entomologie. Paris. [Nz.]
- Rev. gén. Sci. pur. appl. Paris.*—Revue générale des sciences pures et appliquées. Paris. [19097 N. Sc.]
- Rev. Géol. Liège.*—Revue de géologie et des sciences connexes. Liège. [19105 Ng. G.]
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- Trav. Serv. géol. Pologne.*—Travaux du Service géologique de la Pologne. Varsovie. [21761 G.]
- Trav. Soc. bulg. Sci. nat. Sofia.*—Travaux de la Société Bulgare des Sciences Naturelles. Sofia. [21803 N. B.]
- Trav. Soc. Nat. (Sect. Géol. or Sect. Zool.), Leningrad.*—Travaux de la Société des Naturalistes de Leningrad. Section de Géologie et de Minéralogie. Section de Zoologie et de Physiologie. [21763 N.]
- Trav. Sta. biol. Caucase Nord.*—Travaux de la Station Biologique du Caucase du Nord. Vladicaucase. [17549a Nz. I.]
- Trav. Sta. biol. Dniepre, Kiev.*—Travaux de la Station biologique du Dniepre, Kiev. [23303b I.]
- Trav. Sta. biol. Murman.*—Travaux de la Station Biologique de Murman. Murmansk. [17548b N.]
- Trav. Sta. biol. Roscoff, Paris.*—Travaux de la station biologique de Roscoff. Paris. [21765a N.]
- Trav. Sta. biol. Sébastopol.*—Travaux de la Station biologique de Sébastopol. Leningrad. [21904ab Nz.]
- Trav. Sta. limnol. Lac Bajkal, Leningrad.*—Travaux de la Station Limnologique du Lac Bajkal. Leningrad. [21806e Ng.]
- Treb. Mus. Cièn. nat. Barcelona.*—Publicacions de la Junta de Ciències Naturals de Barcelona. Treballs del Museu de Ciències Naturals de Barcelona. (a) Series Botanica, (b) Series Biologica-Oceanografica, (c) Series Geologica. (d) Series Zoologica. [14695 N. G.]
- Treb. Soc. Biol. Barcelona.*—Treballs de la Societat de Biologia de Barcelona. Publicacions de l'Institut de Ciències. Barcelona. [21774 N.]
- Treubia, Buitenzorg.*—Treubia. Recueil de travaux zoologiques, hydrobiologiques et océanographiques. Buitenzorg. [21777 Nz. I.]

- Tromsø Mus. Aarsberet.*—Tromsø Museums Aarsberetning. Tromsø. [21792 N. L.]
- Tromsø Mus. Aarsheft.*—Tromsø Museums Aarshefter. Tromsø. [21793 N. B.]
- Trop. Agr. Peradeniya.*—Tropical Agriculturist. Peradeniya. Ceylon. [21796 Nz. I.]
- Trop. Natuur Weltevreden.*—De tropische Natuur. Organ van de Nederlandsch-Indische Natuurhistorische Vereeniging. Weltevreden, Java. [21800 N.]
- Tübinger Nat. Abhand. Stuttgart.*—Tübinger Naturwissenschaftliche Abhandlungen. Stuttgart. [21968c N.]
- Tufts Coll. Stud.*—Tufts College Studies. Scientific Series. Medford, Mass. [21970 N. U.]
- Univ. Calif. Pub. Ent.*—University of California Publications in Entomology. Berkeley. [22078 Nz.]
- Univ. Calif. Pub. Geol.*—University of California Publications in Geology. Berkeley. [22075 Ng.]
- Univ. Calif. Pub. Physiol.*—University of California Publications in Physiology. Berkeley. [22081 N. U.]
- Univ. Calif. Pub. Zool.*—University of California Publications in Zoology. Berkeley. [22084 N. Sc.]
- Univ. Colo. Stud.*—University of Colorado Studies. Boulder. [22094 N. B.]
- Univ. Illinois Bull. Urbana.*—University of Illinois Bulletin. Urbana. [22099 N.]
- Univ. Iowa Studies, Iowa City.*—See *Stud. Nat. Hist. Iowa Univ.*
- Univ. Oregon Pub.*—University of Oregon Publications, Eugene. [22107 N. Sc.]
- Univ. Studies, Univ. Nebraska.*—University Studies. Published by the University of Nebraska. Lincoln, Nebr. [22113 N.]
- Univ. Texas Bull.*—University of Texas Bulletin. (Geology.) Austin, Texas. [5681a Ng.]
- Univ. Toronto Stud. Biol.*—University of Toronto Studies. Biological Series. Toronto. [22116 N. Sc.]
- Univ. Toronto Stud. Geol.*—University of Toronto Studies. Geological Series. Toronto. [22117 N. G.]
- Univ. Toronto Stud. Physiol.*—University of Toronto Studies. Physiological series. [22123 N. U.]
- Univ. Washington Pub. Biol. Seattle.*—University of Washington Publications in Biology. Seattle, Washington State. [22125 Nz.]
- Univ. Washington Pub. Oceanogr. Seattle.*—University of Washington Publications in Oceanography. Seattle, Washington State. [22125 N.]
- Univ. Wyoming Pub. Sci.*—University of Wyoming Publications in Science, Geology, etc., etc. Laramie, Wyo. [22126a N.]
- Vakbl. Biol. Helder.*—Vakblad voor Biologen. Helder. [22177 N.]
- Variét. sci. Soc. Sci. nat. Maroc.*—Variétés scientifiques recueillies par la Société des sciences naturelles du Maroc. Rabat. [22188 N. I.]
- Vasculum, Newcastle.*—Vasculum. Newcastle-upon-Tyne. [22192 N. I.]
- Venus, Kyoto.*—The Venus: A quarterly Journal devoted to the study of Mollusca. Kyoto, Japan. [22221a Nz.]
- Ver. Nachr. bad. ent. Ver. Freiburg i. Br.*—Vereins-Nachrichten der Badischen Entomologischen Vereinigung. Freiburg i. Br. [22233b I.]
- Verh. Akad. Wet. Amsterdam.*—Verhandelingen der Konink. Akademie van wetenschappen. Amsterdam. [22238 N. B.]

- Verh. anat. Ges. Jena.*—Verhandlungen der Anatomischen Gesellschaft. [Suppl. vol. to Anat. Anz. Jena.] [22246 Nz.]
- Verh. Deutsch. zool. Ges. Leipzig.*—Verhandlungen der Deutschen Zoologischen Gesellschaft E.V. [Suppl. vol. to Zool. Anz. Leipzig.] [22270 Nz.]
- Verh. geol. Bundesanst. Wien.*—Verhandlungen der Geologischen Bundesanstalt. Wien. [22275 Ng. G.]
- Verh. geol.-mijnb. Genoot. Ned. Kol.*—Verhandelingen van het Geologisch-mijnbouwkundig genootschap voor Nederland en kolonien. 's-Gravenhage. [22240 N. G.]
- Verh. Ges. deuts. Naturf. Arzt.*—Verhandlungen der Gesellschaft Deutscher Naturforscher und Ärzte. Berlin. [22277 N. S.]
- Verh. int. Vereinig. Limnol. Stuttgart.*—Verhandlungen der Internationalen Vereinigung für theoretische und angewandte Limnologie. Stuttgart. [N.]
- Verh. naturf. Ges. Basel.*—Verhandlungen der Naturforschenden Gesellschaft in Basel. [22292 N. Sc.]
- Verh. naturf. Ver. Brünn.*—Verhandlungen des Naturforschenden Vereines in Brünn. [22293 N.]
- Verh. naturh. Ver. preuss. Rheinl.*—Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande und Westfalens. Bonn. [22294 N. I.]
- Verh. naturh.-med. Ver. Heidelberg.*—Verhandlungen des Naturhistorisch-medizinischen Vereins zu Heidelberg. [22295 N. S.]
- Verh. naturw. Ver. Hamburg.*—Verhandlungen des Naturwissenschaftlichen Vereins zu Hamburg. [22296 N.]
- Verh. naturw. Ver. Karlsruhe.*—Verhandlungen des Naturwissenschaftlichen Vereins in Karlsruhe. [22297 N.]
- Verh. orn. Ges. Bayern.*—Verhandlungen der Ornithologischen Gesellschaft in Bayern. München & Jena. [22301 Nz.]
- Verh. phys.-med. Ges. Würzburg.*—Verhandlungen der Physikalisch-medizinischen Gesellschaft zu Würzburg. [22302 N. Sc.]
- Verh. schweiz. naturf. Ges.*—Verhandlungen der Schweizerischen Naturforschenden Gesellschaft. Aarau. [22307 N. G.]
- Verh. siebenbürg. Ver. Naturw.*—Verhandlungen u. Mitteilungen des Siebenbürgischen Vereins für Naturwissenschaften zu Hermannstadt. [22308 N. B.]
- Verh. Ver. naturw. Unterh. Hamburg.*—Verhandlungen des Vereins für Naturwissenschaftliche Unterhaltung zu Hamburg. [22319 N. B.]
- Verh. zool.-bot. Ges. Wien.*—Verhandlungen der Zoologisch-botanischen Gesellschaft in Wien. [22327 N. I.]
- Veröff. Mus. Ferdinand. Innsbruck.*—Veröffentlichungen des Museum Ferdinandeum in Innsbruck (replaces Zs. Ferdinand). [22376a N.]
- Vers. Afd. Ned.-Oost-Ind. ned. ent. Ver.*—Verslagen van de Vergaderingen der Afdeling Nederlandsch Oost-Indië van de Nederlandsche Entomologische Vereeniging. [The Hague.] [22459a Nz.]
- Věst. české. Akad. Praha.*—Věstník České Akademie Císaré Františka Josefa pro Vědy, Slovesnost a Umění (České Akademie Věd a Umění). Praha. [22469 N. Sc.]
- Věst. českosl. Zem. Mus.*—Věstník Československého Zemědělského Musea. [Bull. Cechoslov. Agric. Mus.] Praha (Prague). [22472a Nz.]
- Věst. Sta. geol. Úst. Českosl.*—Věstník Státního Geologického Ústavu Československé Republiky. Praha [Prague]. [22474a Ng.]
- Vet. J. London.*—Veterinary Journal. London. [22518 I. S.]
- Vict. Nat. Melbourne.*—Victorian Naturalist. Melbourne. [22531 N. B.]

- Vidensk. Medd. naturh. Foren. Kjøb.*—Videnskabelige Meddelelser fra den Naturhistoriske Forening i Kjøbenhavn. [22535 N. I.]
- Virchows Arch. Berlin.*—Virchows Archiv für pathologische Anatomie und Physiologie und für klinische Medizin. Berlin. [22575 S. M.]
- Vjschr. naturf. Ges. Zürich.*—Vierteljahresschrift der Naturforschenden Gesellschaft in Zürich. [22557 N. B.]
- Vög. ferner Länder.*—Vögel ferner Länder, Hannover.
- Vogelzug, Berlin.*—Der Vogelzug. Berichte über Vogelszugsforschung und Vogelberingung. Berlin. [22605a Nz.]
- Walker Mus. Mem. Chicago.*—Walker Museum Memoirs. University of Chicago Press, Chicago. [13424d Ng.]
- Washington [State] Univ. Stud.*—Washington [State] University Studies. Seattle [22796 N.]
- Washington Univ. Stud. St. Louis.*—Washington University Studies. New series. Science and Technology. St. Louis Mo. [22795a N.]
- Wetens. Meded. Mijnb. Weltevreden.*—Wetenschappelijke Mededeelingen. Dienst van den Mijnbouw in Nederlandsch-Oost-Indië. Weltevreden, Java. [22963a Ng.]
- Wien. ent. Ztg.*—Wiener entomologische Zeitung. Wien. [22991 Nz. I.]
- Wilson Bull. Sioux City.*—Wilson Bulletin. Wilson Ornithological Chapter. Agassiz Association. Sioux City, Iowa. [23017 B. V.]
- Wiltsh. archaeol. nat. Hist. Mag.*—Wiltshire Archaeological and Natural History Magazine. Devizes. [23019 B.]
- Wiss. Ber. moskauer Staats Univ.*—Wissenschaftliche Berichte der Moskauer Staats-Universität. Moskau. [21991ab N.]
- Wiss. Meeresuntersuch. Abt. Kiel or Abt. Helgoland.*—Wissenschaftliche Meeresuntersuchungen der Kommission zur wissenschaftlichen Untersuchungen der deutschen Meere. Abt. Kiel or Abt. Helgoland, Kiel and Leipzig. [23056 Nz. Sc.]
- Wiss. Mitt. Univ. Smolensk.*—Universität Smolensk. Wissenschaftliche Mitteilungen. Smolensk. [14945a N.]
- Works appl. Ent. Leningrad.*—Works on Applied Entomology. State Institute of Experimental Agronomy. Leningrad. [Nz. I.]
- Works second Moscow Univ.*—Trudui vtorogo Moskovskogo Universiteta [Works of the Second Moscow University]. [N.]
- Yearb. Amat. Menag. Cl. Maidstone.*—Yearbook. Amateur Menagerie Club. Maidstone. [23160 B. Z.]
- Yearb. Bur. Ent. Hangchow.*—Yearbook. Bureau of Entomology. Hangchow. [Nz.]
- Yearb. Carnegie Inst. Washington.*—Carnegie Institution of Washington. Yearbook. Washington, D.C. [23170 N.]
- Yearb. publ. Mus. Milwaukee, Wis.*—Yearbook of the Public Museum of the City of Milwaukee, Wis. [23198a N.]
- Z. Anat. EntwGesch. Berlin.*—Zeitschrift für die gesamte Anatomie. Abt. 1. Zeitschrift für Anatomie u. Entwicklungsgeschichte. Berlin. [23418 S. Sc.]
- Z. angew. Ent. Berlin.*—Zeitschrift für angewandte Entomologie. Berlin. [23326 Nz. I.]
- Z. Biol. München.*—Zeitschrift für Biologie. München & Berlin. [23354 S. U.]
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- Z. deuts. geol. Ges. Berlin.*—Zeitschrift der Deutschen Geologischen Gesellschaft, Berlin. [23369 N. G.]
- Z. Ent. Breslau.*—Zeitschrift für Entomologie. Herausgegeben von der Verein für schlesisch Insektenkunde zu Breslau. [23395 Nz. I.]
- Z. ges. Neurol. Psychiat.*—Zeitschrift für die gesamte Neurologie und Psychiatrie' Berlin. [23430 U. M.]
- Z. Geschlebeforsch. Berlin.*—Zeitschrift für Geschlebeforschung. Organ der Gesellschaft für Geschlebeforschung. Berlin. [23438a Ng. Sc.]
- Z. Hydrol. Aarau.* See *Rev. Hydrobiol.*
- Z. indukt. Abstamm.- u. VererbLehre.*—Zeitschrift für induktive Abstammungs- u. Vererbungslehre. Berlin. [23458 N. Sc.]
- Z. InfektKr. Berlin.*—Zeitschrift für Infektionskrankheiten, parasitäre Krankheiten u. Hygiene der Haustiere. Berlin. [23460 M. V.]
- Z. mähr. LdMus.*—Zeitschrift des Märischen Landesmuseums. Brünn. [23500 N.]
- Z. mikr. anat. Forsch. Leipzig.*—Zeitschrift für Mikroskopisch-Anatomische Forschung. Leipzig. [23507a Nz.]
- Z. Morph. Anthropol. Stuttgart.*—Zeitschrift für Morphologie und Anthropologie. Stuttgart. [23512 S. Sc.]
- Z. Morph. Okol. Tiere, Berlin.*—Zeitschrift für Morphologie und Ökologie der Tiere (Abt. A. Zeitschrift für wissenschaftliche Biologie.) Berlin. [23512a Nz.]
- Z. Naturw. Halle.*—Zeitschrift für Naturwissenschaften. Halle. [23515 N. Sc.]
- Z. österreich. Ent. Ver.*—Zeitschrift des österreichisches Entomologen-Vereins. Wien. [23525 Nz. I.]
- Z. Parasitenk. Berlin.*—Zeitschrift für Parasitenkunde (Abt. F. Zeitschrift für wissenschaftliche Biologie). Berlin. [23536a N. Sc.]
- Z. Säugetierk. Berlin.*—Zeitschrift für Säugetierkunde. Im Auftrage der Deutschen Gesellschaft für Säugetierkunde. Berlin. [23562a Nz.]
- Z. Ver. Naturbeobach. Wien.*—Zeitschrift des Vereines der Naturbeobachter und Sammler. Wien. [23614a N.]
- Z. vergl. Physiol. Berlin.*—Zeitschrift für vergleichende Physiologie Berlin (is Abt. C. of: Zeitschrift Wissenschaftliche Biologie). [23616a B. Sc.]
- Z. wiss. InsektBiol. Berlin.*—Zeitschrift für wissenschaftliche Insektenbiologie. Schöneberg-Berlin. [23631 Nz. I.]
- Z. wiss. Mikr. Leipzig.*—Zeitschrift für wissenschaftliche Mikroskopie und für mikroskopische Technik. Leipzig. [23632 S. Sc.]
- Z. wiss. Zool. Leipzig.*—Zeitschrift für wissenschaftliche Zoologie. Leipzig. [23635 Nz. Sc.]
- Z. Zellf. mikr. Anat. Berlin.*—Zeitschrift für Zellforschung und mikroskopische Anatomie. Berlin. [Abt. B. of Z. wiss Biol.] [23639b S. Z.]
- Zbl. Bakt. Jena.*—Zentralblatt für Bakteriologie, Parasitenkunde u. Infektionskrankheiten. Jena. [23684 S. M.]
- Zephyrus, Fukuoka.*—Zephyrus. [Organ of the Butterfly Hunter's Club.] Fukuoka. Japan. [23763a Nz.]
- Zoogeogr. Jena.*—Zoogeographica. Jena. [23819a Nz.]
- Zool. Anz. Leipzig.*—Zoologischer Anzeiger. Leipzig. [23833 Nz. Sc.]
- Zool. Bidr. Uppsala.*—Zoologiska Bidrag från Uppsala. Uppsala & Stockholm. [23836 Nz. I.]
- Zool. Garten, Leipzig.*—Der Zoologische Garten. Zeitschrift für die gesamte Tiergärtnerei. Leipzig. [23830a Nz.]

- Zool. J. Moscow*.—Zoologhicheskiĭ Zhuonal. Moskva (formerly Rev. zool. russe). [19609 Nz.]
- Zool. Jahrb. Jena (Anat., Syst., or Allg. Zool.)*. Zoologische Jahrbücher. 1 Abt. für Anatomie. 2 Abt. für Systematik. 3 Abt. für allgemeine Zool. und Physiol. der Tiere. Jena. [23831 Nz. Sc.]
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- Zoologica, Stuttgart*.—Zoologica. Original Abhandlungen. Stuttgart. [23820 Nz. Sc.]
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